

Office of the Chief Medical Examiner Annual Report 2019



Commonwealth of Virginia
Virginia Department of Health
Office of the Chief Medical Examiner
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Office of the Chief Medical Examiner Annual Report 2019

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INTRODUCTION

Executive Summary

The Virginia Department of Health, Office of the Chief Medical Examiner (OCME) is proud to present the 2019 Annual Report. In addition to fulfilling accreditation requirements for the Virginia OCME by the National Association of Medical Examiners (NAME), the OCME Annual Report provides specific information about deaths occurring in the Commonwealth of Virginia during the 2019 calendar year and investigated by the OCME. This information is a valuable resource for Virginia's citizens and leaders to identify trends in preventable deaths, which can be used to protect the lives of all Virginians through education and changes in public policy.

As a model statewide death investigation system with four district offices, the OCME fulfills a core function mandated by Code of Virginia, § 32.1-283. By Code, the OCME is tasked with investigating the deaths of individuals who died in Virginia from trauma or violence, when sudden and unexpected, while unattended by a physician, under suspicious circumstances or in the custody of law enforcement or other state or local authority. When deaths are reported to one of the four district OCME offices, the case information is entered into the Virginia Medical Examiner Database (VMEDS) and the case is managed through this statewide data system allowing for consistent, reliable data that can be reviewed and interpreted for the annual report.

Some of the important trends for 2019 include:

- Among manners of death, the most notable changes in 2019 compared to 2018 were increases
 among accidents and homicides (rates of 43.6 and 5.4 per 100,000 persons, respectively) but
 decreases among natural deaths under OCME jurisdiction, suicides, and undetermined manners of
 death (rates of 22.0, 13.6, and 1.9 per 100,000 persons, respectively)
- Accidental Deaths
 - Accidental deaths have been increasing since 2011. In 2019, the number of accidental deaths increased 5.3% from 2018 (with rates of 43.6 and 41.5 per 100,000 persons, respectively)
 - o Of all deaths investigated by the OCME in 2019, 50.3% (n=3,719) were accidents
 - Males, both Black and White, had the highest rates of accidents, all causes (65.1 and 63.7 per 100,000, respectively)
 - Over 43% (n=1,496) of all accidental deaths were due to fatal drug overdoses

Homicides

- o The number of homicides in 2019 increased 7.2% from the previous year
- The number of gun-related homicides in 2019 were nearly identical to the number in 2018
 (353 and 348 deaths, respectively)
- Black males had the highest homicide rate (29.5 per 100,000) in 2019. Black males were victims of homicide at a rate 8.4 times that of White males, 9.8 times that of Hispanic males, and 7.0 times that of Black females
- o Richmond City had both the largest number of homicides by locality of residence and locality of injury (n=37 and n=68, respectively). Petersburg had both the highest homicide rate by locality of residence by location of injury (54.2 and 67.0 per 100,000, respectively)

Suicides

 In 2019, White males committed suicide at a rate 5.4 times that of Hispanic males, 3.6 times that of Asian males, and 2.1 times that of Black males

Fatal motor vehicle collisions

Black males had the highest rate of fatal motor vehicle collisions (23.9 per 100.000)

Fatal drug overdoses

- The number of drug/poisoning deaths in 2019 increased by 9.5% compared to 2018 (rate of 19.1 and 17.4 per 100,000 persons, respectively)
- Black males followed closely by White males had the highest rates of fatal overdoses, all substances in 2019 (30.5 and 28.1 per 100,000, respectively)
- Fatal fentanyl and/or heroin overdoses surpassed prescription opioid (excluding fentanyl)
 overdoses in 2015 and this trend continued at a greater magnitude in 2019
- Fentanyl and/or heroin was involved in 65.9% of all drug/poison cases in Virginia in 2019
- Over 96% of all fatal opioid overdoses in 2019 were accidents
- In 2019, fentanyl (Rx, illicit, and analogs) was responsible for 59.3% of all fatal overdoses, all substances

Gun-related deaths

The majority (64.4%) of gun-related deaths were due to suicide in 2019, similar to previous
 years

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Introduction

This report represents the deaths investigated by the Virginia Department of Health, Office of the Chief Medical Examiner in 2019.

Data Collection and Preparation

The data in this report reflect deaths accepted by the Office of the Chief Medical Examiner (OCME) pursuant to §32.1-283 of the Code of Virginia for the 2019 calendar year. These deaths are both Virginia residents and non-residents whose deaths generally occurred within the borders of the Commonwealth of Virginia. The Virginia OCME classifies these deaths by its own coding schema, which differs from mortality data published by other OCME surveillance groups, law enforcement agencies, the Virginia Center for Health Statistics, and the Centers for Disease Control and Prevention (CDC). Any discrepancies between data presented by the OCME and other nosology groups are the result of data collection and analytic variations among these groups.

Statistical Summary

- Data is based upon both Virginia residents and non-Virginia residents, whose deaths have come under the jurisdiction of the Virginia Office of the Chief Medical Examiner
- Rates
 - Rates are per 100,000 persons of the specific Virginia population being described
 - Crude rates are used for all deaths occurring in Virginia, regardless of residential status
 - Rates calculated from small case counts (<5) are considered unreliable and should be interpreted with caution
- Race/Ethnicity (based on information provided from next of kin on decedent's death certificate)
 - Asian, Black, Native American, and White races represent those who have been identified as non-Hispanic ethnicity
 - 'Hispanic' are persons identified as White race with Hispanic ethnicity
 - Other' race are persons that are identified as more than one race or Black, Asian, or Native
 American race with Hispanic ethnicity
- Toxicology
 - o Results are based on blood specimens and vitreous fluid

OVERVIEW – OFFICE OF THE CHIEF MEDICAL EXAMINER

The General Assembly of Virginia abolished the Office of Coroner's Physician in 1946 and appointed a Chief Medical Examiner. Four years later, the Office of the Chief Medical Examiner (OCME) became an office within the Virginia Department of Health. The OCME is comprised of four district offices, each accredited by the National Association of Medical Examiners, to serve the citizens of the Commonwealth.

Jurisdictional Authority

Pursuant to § 32.1-283 of the Code of Virginia, all of the following deaths are investigated by the OCME:

- Any death from trauma, injury, violence, or poisoning attributable to accident, suicide or homicide
- Sudden deaths of persons in apparent good health and deaths unattended by a physician
- Deaths of persons in jail, prison, or other correctional institutions, as well as deaths in police custody
 This includes deaths during legal intervention such as a death following a police pursuit
- Deaths of patients/residents of state mental health facilities
- Sudden death of any infant less than eighteen months of age whose death might be attributable to
 Sudden Infant Death Syndrome
- Any other suspicious, unusual, or unnatural death

The OCME receives death reports in each of the four offices, takes custody of deaths that fall under OCME jurisdiction as outlined by the Code of Virginia, and conducts medicolegal death investigations into those fatalities. In Virginia, this is performed by a statewide medical examiner system comprised of a chief medical examiner, several assistant chief medical examiners, and medicolegal death investigators in four district offices, as well as local medical examiners in communities across the state. Medicolegal death investigators receive initial notification of death and determine, under the supervision and review of assistant chief medical examiners, if the death is under the jurisdiction of the OCME. After determining that a death is under OCME jurisdiction, medicolegal death investigators and/or local medical examiners may attend the death scene to document and review circumstances surrounding death. In 2019, approximately 144 local medical examiners worked with the OCME to examine decedents, collect toxicology samples, and sign certificates of death. Using professionally established guidelines, and under the direction of assistance chief medical examiners certain

cases were determined to require a medicolegal autopsy, which includes both an internal and external examination.

When an autopsy is required, it is conducted at one of four district offices: Central, Northern, Tidewater, or Western. Each OCME district is staffed by assistant chief medical examiners who are board certified forensic pathologists (American Board of Pathology), board certified medicolegal death investigators (American Board of Medicolegal Death Investigators), administrative, and morgue personnel. The Chief Medical Examiner is responsible for the overall operations of Virginia's medical examiner system.

The Virginia OCME is a model medical examiner system with two separate mission elements that form the core of OCME staff members' efforts.

Medicolegal Mission

- Conduct medicolegal death investigations
- Perform examinations to certify cause and manner of death and recover evidence
- Testify in court proceedings
- Educate peers and professionals on subjects related to death investigation

Public Health Mission

- Reduce violent death by conducting surveillance and fatality reviews
- Provide support and technical assistance to local fatality review teams
- Identify index cases and pathogens in disease outbreaks in the interest of public health
- Cooperate with organ procurement organizations to save and enhance lives through organ and tissue donation and transplantation
- Administer the Virginia State Anatomical Program to provide cadavers for medical education

Virginia's local medical examiners and assistant chief medical examiners are committed to public safety and public health. To promote public safety, they testify to their findings in criminal and civil courts throughout the Commonwealth. They advance public health through their investigations of deaths that present a hazard to Virginia's citizens, such as emerging infections and bioterrorism.

Virginia Demographics in 2019

In 2019, the estimated population of the Commonwealth was 8,535,519 persons. The average age of Virginia residents was 37.5 years and females represented 50.8% of the population. Whites constituted 62.6% of the population, Blacks 20.0%, Hispanics 9.8%, Asians 7.4%, and Native Americans 0.3% of Virginia's people.

Division of Death Prevention, Fatality Review and Surveillance Programs

In addition to conducting medicolegal death investigations to identify the cause and manner of death, the OCME oversees several public health surveillance projects and fatality review team initiatives. Surveillance projects include the Virginia Violent Death Reporting System (VVDRS), the Overdose Data to Action (OD2A) grant, the Sudden Death in the Young Case Registry (SDY), and the Pregnancy-Associated Mortality Surveillance System (PAMSS). Fatality review is performed on child and maternal deaths at the state level and at the local and regional level on adult, child, overdose, and domestic violence related deaths.

Surveillance projects and fatality review teams examine various types of preventable deaths to provide a better understanding of factors contributing to the death so that legislators, policy makers, and other stakeholders can make informed decisions for injury and violence prevention. Fatality review and surveillance is retrospective examination, with most programs being approximately 1-3 years behind the current year. The data collection and review process requires a "deep dive" into a decedent's medical, mental, social, educational, and criminal background, which takes time, as records must be requested, collected, collated, reviewed, and summarized.

Virginia Violent Death Reporting System (VVDRS) was implemented in 2003 as part of the National Violent Death Reporting System (NVDRS). Virginia was among the first six states and the first statewide medical examiner system to be funded for this project, which is now operating in all 50 states and two territories.

The VVDRS collects information about deaths of Virginians who die in Virginia due to violence (suicide, homicide, legal intervention, unintentional firearm discharge, deaths of an undetermined manner, and deaths due to terrorism) and correlates victim information with the circumstances surrounding the death. Data from several sources, among them forensic pathology, forensic science, law enforcement, vital records, and health statistics, are linked to provide a comprehensive picture of violent death in the Commonwealth of Virginia.

The Overdose Data to Action (OD2A) grant was implemented in 2019 as part of a collaborative effort between multiple offices, throughout the Virginia Department of Health, including The Office of Family Health Services, Office of Emergency Preparedness, Office of the Chief Medical Examiner, Office of Epidemiology, and the Office of Emergency Medical Services. The multi-arm project strives to collect and understand fatal and non-fatal accidental overdose events and then use that data to inform policy and programs to prevent such events. Data is collected using the aforementioned NVDRS and other surveillance systems. The Department of Forensic Science also receives funding as part of this award to implement quantification programs to quantify opioid derivatives for use in toxicology testing and monitoring.

The OCME's arm, the State Unintentional Drug Overdose Reporting System (SUDORS), goal is to prevent accidental death through the collection of surveillance data to create public health strategies to address opioid addiction. SUDORS captures information on accidental and undetermined overdose deaths in Virginia. While much of this data is also collected through the VVDRS, the SUDORS collects additional information such as descriptions of paraphernalia found at the scene, prescription monitoring reports, naloxone administration, and any history of substance abuse, treatment, or relapse.

Domestic Violence Fatality Review was established in 1999 when the General Assembly enacted §32.1-283.3 of the Code of Virginia. This statute provides for the establishment of local and regional domestic violence fatality review teams and directs the OCME to provide technical assistance and support to these teams.

Domestic violence fatality review has gained prominence and momentum in the last decade, both here in Virginia and across the United States. The purpose of domestic violence fatality review is to prevent future deaths by carefully examining the events that led to a fatality; by analyzing system responses to those deaths; and by improving a community's coordinated response to domestic violence. Multidisciplinary teams are formed at the local or regional level. Membership in these teams varies among localities, but generally includes representatives from law enforcement, Commonwealth Attorneys, social services, courts, probation and parole, domestic violence programs, mental health, and healthcare.

Virginia has made great progress in the area of domestic violence fatality review. Twenty local or regional teams have been established throughout the Commonwealth. Reports published by Virginia's teams provide Virginia Department of Health

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information on the victims and perpetrators in these fatal incidents, as well as the lethality factors that shaped these tragedies. Teams have developed recommendations for improved community response when deadly violence occurs among family members or intimate partners.

State Child Fatality Review Team was established in 1995 by the Virginia General Assembly and the Governor of Virginia. Working in the spirit of public health, the multidisciplinary team conducts retrospective reviews of the circumstances surrounding violent and unexpected child death and develops consensus recommendations for intervention and prevention of future child deaths. The team reviews child deaths in a topical manner. By reviewing cases based on a specific type of death, the team is able to determine risk and protective factors associated with that type of injury and to develop targeted recommendations for intervention and prevention. Team members include representatives from pediatrics, emergency medicine, child psychiatry, law enforcement, mental health, social services, forensic pathology, Commonwealth Attorneys, local fire and emergency medical services providers, injury prevention groups, child advocacy organizations, and other state agencies.

Over the years, the team has identified common trends observed in child deaths, including the presence of family violence and economic instability as risk factors for homicide of young children, the importance of adult supervision in preventing unintentional injury death, the need for policy and education to prevent child drownings, and the prevalence of family substance abuse and mental health problems in cases of sleep-related infant deaths and deaths due to poisoning. Through its many reviews, the Virginia State Child Fatality Review Team has discerned that child death in Virginia is patterned and largely preventable.

Infant and Child Mortality Surveillance was created 2015. The team implemented the Infant and Child Mortality Surveillance Systems, one for those under the age of 1 years old and another for children aged 1-17 years in an effort to guide and better inform discussions, planning and legislative action that effects the health and well-being of children and families in the Commonwealth. This project seeks to provide reports detailing the circumstances and characteristics of both infant and child deaths occurring in Virginia.

Child fatality review is supported by the Virginia Department of Health, Office of Family Health Services with Title V funds from the U.S. Department of Health and Human Services, Maternal and Child Health Bureau.

Regional Child Fatality Review Teams were established in all five Virginia Department of Social Services (DSS) regions in the Commonwealth. These teams review all child deaths investigated by a local department of social services for suspicions of abuse or neglect, regardless of the finding. The OCME provides training and technical assistance to these teams, assisting them with the theory and practice of effective child fatality review, developing guidance documents, and providing trainings for team members, coordinators and recorders. The OCME also assists these regional teams with the process of developing recommendations for intervention and prevention of child deaths as well as helping to improve data collection, entry, and quality assurance strategies.

Virginia's Pregnancy-Associated Mortality Surveillance System (PAMSS) and Maternal Mortality Review Team (MMRT) are housed in the OCME. Surveillance of all deaths of women occurring during pregnancy or within one year of pregnancy (termed "pregnancy-associated death") is conducted to provide up-to-date information on patterns and trends. Data from PAMSS includes not only surveillance data, but also data collected from the MMRT process. Current PAMMS data indicates pregnancy-associated maternal death in Virginia remains a significant public health problem.

Rising maternal mortality rates throughout the United States have led to renewed interest in expanding state-based review teams. Virginia's Maternal Mortality Review Team is one of the longest continuously functioning multidisciplinary review teams in the US. The team was established in March 2002 as a partnership between the Office of Family Health Services and the OCME. The team was codified during the 2019 General Assembly session via House Bill 2546 effective July 1, 2019 with the OCME continuing to provide coordination for the team. Codifying the team allows for more comprehensive record collection, which enhances the review process and provides protections to the team, that creates a safe environment for more open dialogue amount the team members. The Maternal Mortality Review Team reviews all cases of pregnancy-associated death, regardless of the cause or manner of death or outcome of the pregnancy. Systematic, retrospective review of these deaths is performed to understanding the circumstances surrounding the death so that recommendations and interventions can be made to prevent future deaths.

The team is multidisciplinary and includes representatives from: Medical Society of Virginia; Virginia Section of the American College of Obstetricians and Gynecologists; Virginia College of Emergency Physicians; Virginia Chapter of the American College of Nurse Midwives; Association of Women's Health, Obstetrics and Neonatal Virginia Department of Health

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Nurses; Virginia Chapter of the National Association of Social Workers; Virginia Hospital and Healthcare Association; Virginia Sexual and Domestic Violence Action Alliance; Virginia Dietetic Association; local health departments; and state planning agencies. Maternal mortality review is supported by the Virginia Department of Health, Office of Family Health Services with Title V funds from the U.S. Department of Health and Human Services, Maternal and Child Health Bureau.

Virginia's Sudden Death in the Young (SDY) Project began in January 2015 in four communities served by the Tidewater OCME: the cities of Hampton, Newport News, Norfolk, and Virginia Beach. In 2018, three additional cities and three counties were added to the project. Those additions include the cities of Chesapeake, Suffolk, and Portsmouth and the counties of Accomack, Northampton, and York. Using techniques from surveillance and fatality review, this project involves intensive data collection and multidisciplinary review of all deaths involving infants, children and youth up to 19 years of age for which the cause of death was undetermined or not fully understood. These deaths include those from cardiac or neurological causes such as epilepsy or those attributed to Sudden Infant Death Syndrome (SIDS) and Sudden Unexpected Infant Death (SUID). Understanding the precise etiology of these deaths and defining who is at-risk is a necessary first step to designing interventions and preventions to reduce these deaths. Virginia is one of 10 states participating in this national project.

The SDY project involves an intensive death investigation of each case. This requires the collection and review of extensive records for the child and family including past medical histories, social service histories, school records for the child where applicable, criminal histories and other relevant records for the case. The information gathered from the death investigation is used by both a multidisciplinary child fatality review team and a clinical review team. The project utilizes the VDSS Eastern Region review team, which is comprised of direct service providers in the areas of social services, law enforcement, education and child advocacy. Their role is to assess family protective and risk factors for each death, to evaluate the quality of agency response, and to identify prevention strategies. The clinical review team is made up of a pediatric neurologist, geneticist, maternal fetal medicine specialist, pediatrician, cardiologist, a social worker, OB/GYN, and a forensic pathologist. Their role is to identify undiagnosed medical risk factors that may have contributed to the child's death. The critical purpose of these investigations and reviews is to determine if causes of death can be further clarified, refined, and described, and then ultimately lead to the prevention of these premature deaths.

An optional component of the project allows consenting families to participate in a study of these deaths through an SDY Case Registry, which is being conducted by the CDC, the National Heart, Lung, and Blood Institute (NHLBI), and the National Institute of Neurological Disorders and Stroke (NINDS) at the National Institutes of Health. Consent includes the storage of bio-specimens for DNA banking and testing in the event that medical insights or breakthroughs in the future promise additional information about the child's death.

Adult Fatality Review was established for Virginia localities effective July 1, 2015. Currently, there are two local and regional teams (Richmond Metro and Northern Virginia) established in the Commonwealth. Similar to child and domestic violence death review efforts, local communities may now convene such teams to examine deaths of any persons 60 years of age or older or any vulnerable or incapacitated adult 18 years of age or older, under three different scenarios: (1) persons who were the subject of an adult protective services or law enforcement investigation; (2) adults whose death was due to abuse, neglect, or exploitation or acts suggesting abuse, neglect, or exploitation; and (3) persons whose death was investigated by the Office of the Chief Medical Examiner as suspicious, unusual, or unnatural. The goal of this process is to identify at risk populations in their communities, opportunities for improved response to adult abuse and neglect, and best practices for preventing further abuse and violence. Currently there is no funding for a State Adult Fatality Review Team and efforts to solicit grant funds have not been successful or funds have not been available for this work. At this time, the Adult Fatality Review remains an unfunded mandate.

Local and Regional Overdose Fatality Review was established for Virginia localities effective July 1, 2018. Currently, there are no formal teams, but interest is growing. Similar to child, adult, and domestic violence death review efforts, local communities may now convene such teams to examine deaths of any persons who died of an overdose related death. Localities may establish a team under this statute (Code of Virginia §32.1-283.7) for the purpose of: (1) conducting contemporaneous reviews of local overdose deaths, (2) promoting cooperation and coordination among agencies involved in investigations of overdose deaths or in providing services to surviving family members, (3) developing an understanding of the causes and incidence of overdose deaths in the locality, (4) developing plans for and recommending changes within the agencies represented on the local team to prevent overdose deaths, and (5) advising the Department and other relevant state agencies on changes to law, policy, or practice to prevent overdose deaths. The goal of this process is to identify at risk

populations in their communities, opportunities for improved response to overdoses, and best practices for preventing further overdose related deaths.

In Virginia, information learned from fatality review efforts supports the development of recommendations and information sharing with critical stakeholders to reduce injury and death. The Division of Death Prevention is dedicated to providing data and technical assistance to those in our community. Data can be requested from any of our projects, by reaching out to Division Director or the Project Manager for the particular program of interest. More information and who to contact can be found at: http://www.vdh.virginia.gov/medical-examiner/fatality-review-surveillance-programs-reports/

Training and Education

Forensic Pathology Training Programs

Website — http://www.vdh.virginia.gov/medical-examiner/forensic-pathology-training-programs/

The Virginia Commonwealth University School of Medicine (VCU), in conjunction with the OCME, offers an Accreditation Council for Graduate Medical Education (ACGME) accredited fellowship in the subspecialty of forensic pathology. The forensic pathologists of the Central, Tidewater, and Western District offices are the core faculty of the Department of Legal Medicine at VCU, chaired by the Chief Medical Examiner. OCME office staff has full access to facilities at VCU and its medical, dental, pharmacy, hospital administration, nursing, and other health science schools. The Department of Legal Medicine Faculty also participate as attending physicians for the forensic pathology fellowship.

The forensic pathology training program is designed to provide training and experience to pathologists pursuing a career in forensics. It is the aim of the forensic pathology training program that, by the end of the fellowship year, the trainee can adequately manage medicolegal death investigations with self-assurance and technical competence. After the 12-month fellowship, the physician should have obtained enough experience to be eligible to take the American Board of Pathology examination in the subspecialty of Forensic Pathology. Upon completion, the trainee will be ready to accept a position in all types of Medical Examiner/Coroner systems. All district OCME offices are approved to host and train physicians for the fellowship. The fellowship continues to interview multiple candidates for 2021-2022 and 2022-2023.

The OCME offers forensic rotations to residents, medical students, and pathology assistant students. Medical students from VCU and EVMS typically rotate for a 2-4 week elective to learn autopsy techniques and death certification. Pathology assistant students from EVMS rotate for 8 weeks to learn autopsy techniques and procedures at the Tidewater and Central Offices. The OCME also offers month long rotations for resident physicians from VCU, University of Virginia, Walter Reed Hospital, and National Institute of Health who desire exposure to forensic pathology as part of their anatomical pathology training. Residents from other in state or out of state programs may be accepted for training.

National Association of Medical Examiners Accreditation

The National Association of Medical Examiners (NAME) is the professional organization for physician medical examiners, medicolegal death investigators and death investigation system administrators who investigate deaths of public interest, either legal or public health, in the United States. NAME has developed an accreditation process to improve the quality of death investigation within medical examiner offices and systems. When an office is accredited by NAME, it is an endorsement that the office has provided an environment adequate for a medical examiner to practice his or her profession and that the office can adequately serve its jurisdiction. The accreditation process includes but is not limited to: inspection of facilities, review of facility and personnel safety, qualification of medical examiners, review of medicolegal procedures, and review of reports and records. One requirement within the reports and records section is an annual statistical report, which the Virginia OCME fulfills with this report. The following two tables provide data on the NAME required fields on 2019 death investigations:

	Central	Northern	Tidewater	Western	Total
TOTAL DEATHS STATEWIDE					
Total Deaths Reported to OCME	5275	3415	2675	4224	15589
OCME Cases by Examination Type					
Complete examinations (autopsy)	770	632	601	693	2696
External examination	1485	915	1004	1078	4482
Partial examination	20	90	55	50	215
TOTAL CASES ACCEPTED BY THE OCME	2275	1637	1660	1821	7393
OCME Cases by Manner of Death					
Accident	1219	802	771	927	3719
Homicide	156	56	164	85	461
Natural	520	454	417	491	1882
Suicide	329	291	255	284	1159
Undetermined	47	32	52	33	164
Undefined for Fetal Death*	4	2	1	1	8
TOTAL CASES ACCEPTED BY THE OCME	2275	1637	1660	1821	7393

^{*} Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2019, the OCME accepted eight fetal deaths under OCME jurisdiction of the 3,970 total fetal deaths reported to Vital Records

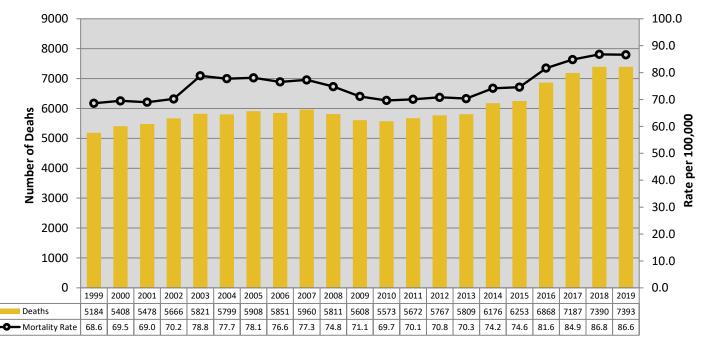
	Central	Northern	Tidewater	Western	Total
Bodies transported by office	2275	1637	1660	1821	7393
Bodies transported to office	1377	1092	866	1043	4378
Cases with toxicology (including retro cases)	1295	1134	1061	921	4411
Exhumations	1	0	0	0	1
Eye donations on OCME cases	59	17	113	15	204
Hospital autopsies under OCME jurisdiction	0	0	0	0	0
Organ and tissue donations on OCME cases	102	69	89	75	335
Retrospective cases (cases handled separately)	24	43	13	48	128
Scene visits	623	428	613	175	1839
Unclaimed bodies	96	69	30	28	223
Unidentified bodies after examination (long term)	1	0	0	0	1

SECTION 1: TOTAL OCME CASES (N=7,393)

In 2019, 15,589 deaths were reported to the Office of the Chief Medical Examiner (OCME), which accounted for 22.5% of the estimated total deaths in Virginia. The OCME accepted 7,393 or 47.4% of these investigated deaths as either autopsies or external examinations (views). [NOTE: Retrospective cases are not included in the accepted total case count, but are examined separately in Section 9. While these deaths were investigated in 2019, they may not necessarily have occurred in 2019]. The caseload for 2019 represented a nearly identical number compared to 2018. Of the deaths investigated by the OCME in 2019:

- Among manners of death, the most notable changes in 2019 compared to 2018 were increases among accidents and homicides, but decreases among natural deaths under OCME jurisdiction, suicides, and undetermined manners of death
- Black males continue to have disproportionate number of homicides compared to their portion within the general population
- White males continue to have the highest rate of suicide in the Commonwealth
- Males continue to represent a larger portion of OCME deaths (68.2%) than females
- The 55-64 year old age group had the greatest number of OCME deaths, representing 18.0% of OCME cases
- Fairfax County had the largest number of both residential deaths (n=499) and deaths by injury locality (n=510).
 Martinsville City had the highest rate of death by residential locality (239.0 per 100,000) and Bath County had the highest rate of death by injury locality (241.1 per 100,000)

Figure 1.1 Number and Rate of OCME Cases by Year of Death, 1999-2019



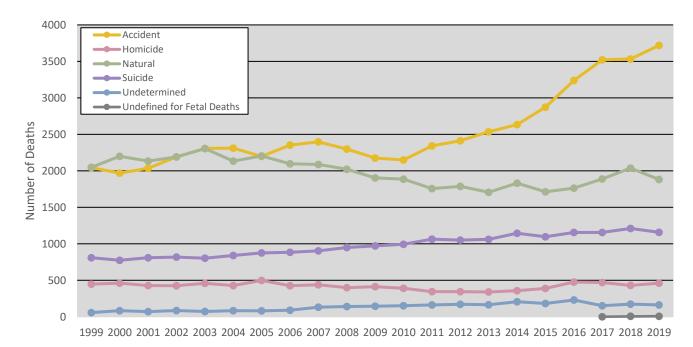


Figure 1.2 Number of OCME Cases by Manner of Death, 1999-2019

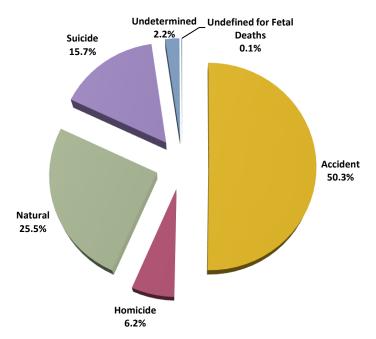


Figure 1.3 Percentage of OCME Cases by Manner of Death, 2019

^{*} Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2019, the OCME accepted eight fetal deaths under OCME jurisdiction of the 3,970 total fetal deaths reported to Vital Records

^{*} Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2019, the OCME accepted eight fetal deaths under OCME jurisdiction of the 3,970 total fetal deaths reported to Vital Records

Table 1.1 Number of OCME Cases by District and Manner of Death, 2019

OCME District

Manner	Central	Northern	Tidewater	Western	Total
Accident	1219	802	771	927	3719
Homicide	156	56	164	85	461
Natural	520	454	417	491	1882
Suicide	329	291	255	284	1159
Undetermined	47	32	52	33	164
Undefined for Fetal Deaths	4	2	1	1	8
TOTAL	2275	1637	1660	1821	7393

^{*} Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2019, the OCME accepted eight fetal deaths under OCME jurisdiction of the 3,970 total fetal deaths reported to Vital Records

Table 1.2 Number of OCME Cases by Autopsy Status and District, 2019

Autopsy Performed

OCME District	Yes	No	Total
Central	790	1482	2275
Northern	722	915	1637
Tidewater	656	1004	1660
Western	743	1078	1821
TOTAL	2911	4482	7393

Table 1.3 Number of OCME Cases by Manner of Death and Autopsy Status, 2019

Autopsy Performed

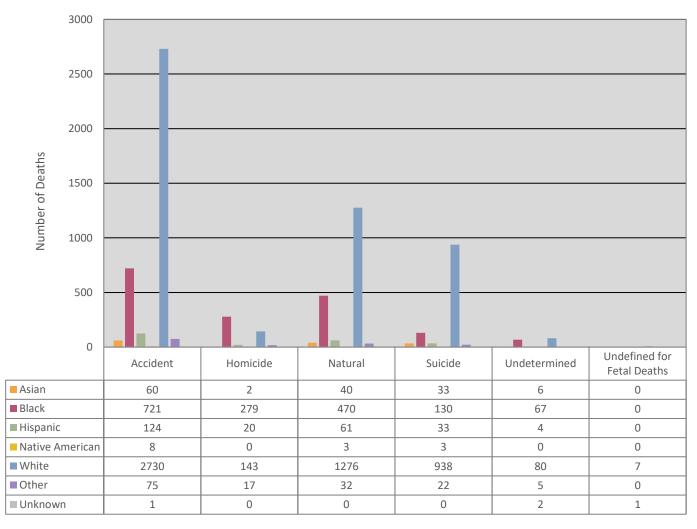
OCME District	Yes	No	% Yes	Total
Accident	1001	2718	26.9 %	3719
Homicide	457	4	99.1 %	461
Natural	467	1415	24.8 %	1882
Suicide	821	338	70.8 %	1159
Undetermined	161	3	98.2 %	164
Undefined for Fetal Deaths	4	4	50.0 %	8
TOTAL	2911	4482	39.4 %	7393

^{*} Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2019, the OCME accepted eight fetal deaths under OCME jurisdiction of the 3,970 total fetal deaths reported to Vital Records

Table 1.4 Number and Percentage of OCME Cases by Race/Ethnicity, 2019

Race/Ethnicity	Cases	Percent
Asian	141	1.9%
Black	1667	22.5%
Hispanic	242	3.3%
Native American	14	0.2%
White	5174	70.0%
Other	151	2.0%
Unknown	4	0.1%
TOTAL	7393	100.0%

Figure 1.4 Number of OCME Cases by Manner of Death and Race/Ethnicity, 2019



^{*} Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2019, the OCME accepted eight fetal deaths under OCME jurisdiction of the 3,970 total fetal deaths reported to Vital Records

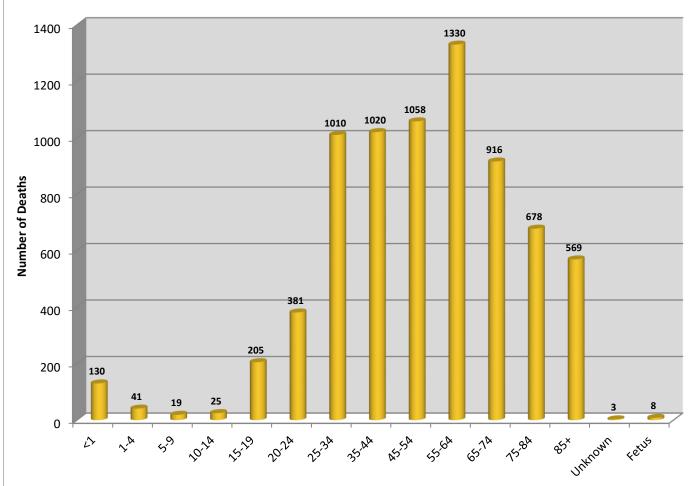


Figure 1.5 Number of OCME Cases by Age Group, 2019

Table 1.5 Number and Percentage of OCME Cases by Gender, 2019

Gender	Cases	Percent
Female	2350	31.8%
Male	5042	68.2%
Unknown	1	0.0%
TOTAL	7393	100.0%

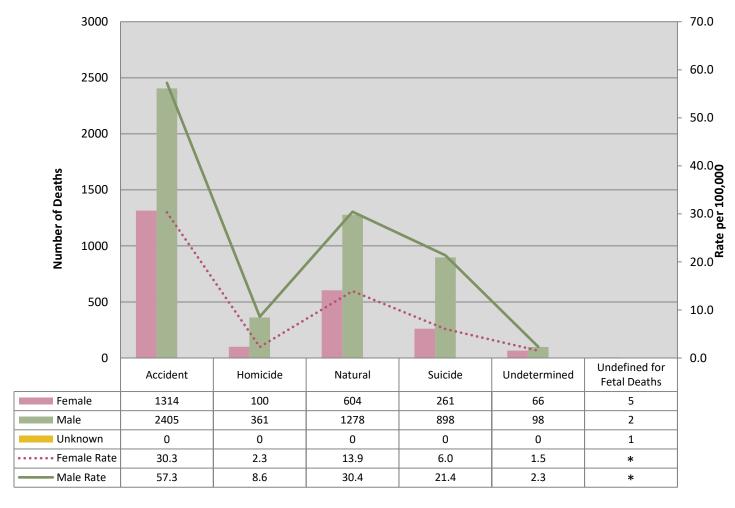
^{*} Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2019, the OCME accepted eight fetal deaths under OCME jurisdiction of the 3,970 total fetal deaths reported to Vital Records

Table 1.6 Number and Percentage of OCME Cases by Manner of Death and Gender, 2019

Manner of Death	Fem	nale	Male		Unknown		Total	
Mailler of Death	N	%	N	%	N	%	N	%
Accident	1314	17.8%	2405	32.5%	0	0.0%	3719	50.3%
Homicide	100	1.4%	361	4.9%	0	0.0%	461	6.2%
Natural	604	8.2%	1278	17.3%	0	0.0%	1882	25.5%
Suicide	261	3.5%	898	12.1%	0	0.0%	1159	15.7%
Undetermined	66	0.9%	98	1.3%	0	0.0%	164	2.2%
Undefined for Fetal Deaths	5	0.1%	2	0.0%	1	0.0%	8	0.1%
Total	2350	31.8%	5042	68.2%	1	0.0%	7393	100.0%

^{*} Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2019, the OCME accepted eight fetal deaths under OCME jurisdiction of the 3,970 total fetal deaths reported to Vital Records

Figure 1.6 Number and Rate of OCME Cases by Manner of Death and Gender, 2019



^{*} No denominator for which to calculate rate

^{*} Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2019, the OCME accepted eight fetal deaths under OCME jurisdiction of the 3,970 total fetal deaths reported to Vital Records

Table 1.7 Number of OCME Cases by Manner of Death, Gender, and Age Group, 2019

Gender	Age Group	Accident	Homicide	Natural	Suicide	Undetermined	Undefined for Fetal Deaths	Total
	<1	7	3	5	0	41	0	56
	1-4	11	4	3	0	0	0	18
	5-9	5	1	1	0	0	0	7
	10-14	2	0	0	6	0	0	8
	15-19	24	8	3	18	0	0	53
	20-24	52	17	9	13	1	0	92
	25-34	200	17	39	34	3	0	293
FFRAALF	35-44	171	22	62	48	6	0	309
FEMALE	45-54	146	7	74	54	5	0	286
	55-64	148	9	136	48	5	0	346
	65-74	134	8	128	23	3	0	296
	75-84	152	3	85	14	1	0	255
	85+	262	1	59	3	0	0	325
	Unknown	0	0	0	0	1	0	1
	Fetus	0	0	0	0	0	5	5
	Subtotal	1314	100	604	261	66	5	2350
	<1	12	7	5	0	50	0	74
	1-4	9	6	4	0	4	0	23
	5-9	4	3	4	0	1	0	12
	10-14	8	3	0	6	0	0	17
	15-19	58	45	9	36	4	0	152
	20-24	123	59	12	87	8	0	289
	25-34	390	97	60	165	5	0	717
MALE	35-44	373	69	125	136	8	0	711
IVIALE	45-54	373	29	235	129	6	0	772
	55-64	409	20	395	153	7	0	984
	65-74	244	15	278	80	3	0	620
	75-84	217	5	120	80	1	0	423
	85+	184	3	31	26	0	0	244
	Unknown	1	0	0	0	1	0	2
	Fetus	0	0	0	0	0	2	2
	Subtotal	2405	361	1278	898	98	2	5042
UNKNOWN	Unknown	0	0	0	0	0	1	1
	Subtotal	0	0	0	0	0	1	1
TOTAL		3719	461	1882	1159	164	8	7393

^{*} Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2019, the OCME accepted eight fetal deaths under OCME jurisdiction of the 3,970 total fetal deaths reported to Vital Records

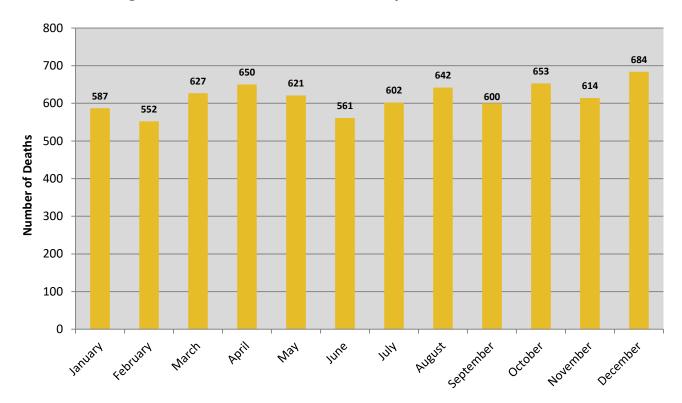
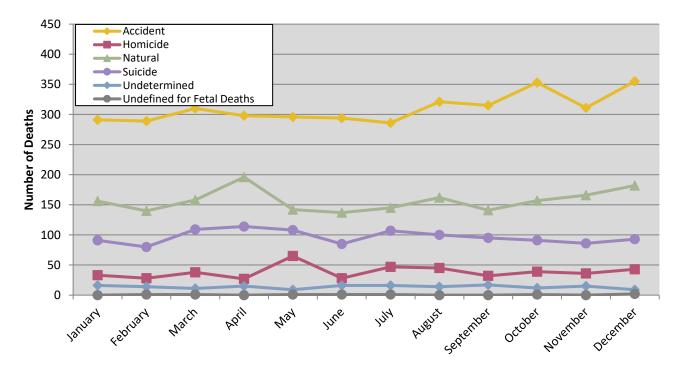


Figure 1.7 Number of OCME Cases by Month of Death, 2019

Figure 1.8 Number of OCME Cases by Month and Manner of Death, 2019



^{*} Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2019, the OCME accepted eight fetal deaths under OCME jurisdiction of the 3,970 total fetal deaths reported to Vital Records

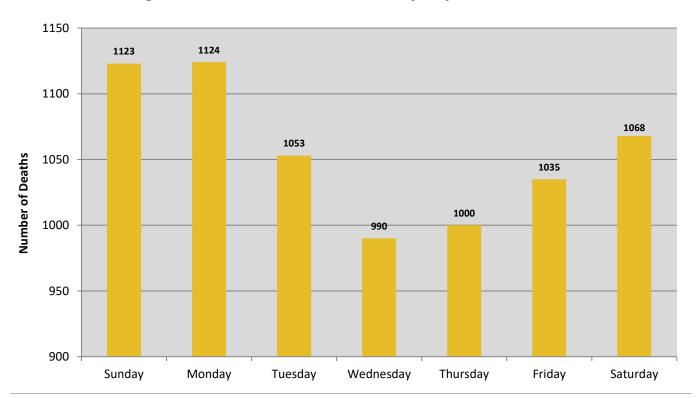
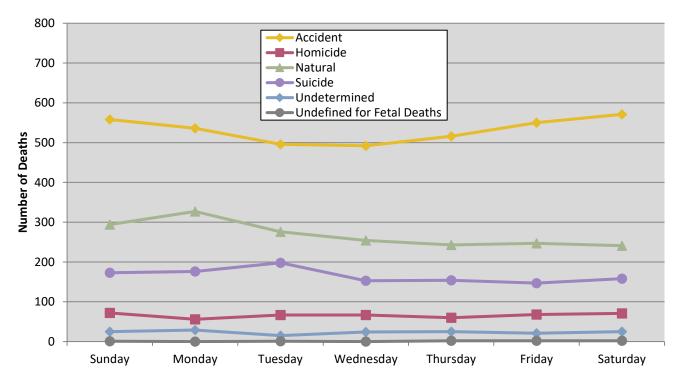


Figure 1.9 Number of OCME Cases by Day of Death, 2019





^{*} Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2019, the OCME accepted eight fetal deaths under OCME jurisdiction of the 3,970 total fetal deaths reported to Vital Records

Table 1.8 Number and Rate of OCME Cases by Manner of Death and Locality of Residence, 2019

Locality of Residence	Accident	Accident	Homicide	Homicide	Natural	Natural	Suicide	Suicide	Undet.	Undet.	Total	Total
•	Total	Rate	Total	Rate	Total	Rate	Total	Rate	Total	Rate		Rate
Accomack County	9	27.8	5	15.5	13	40.2	6	18.6	0	0.0	33	102.1
Albemarle County	47	43.0	2	1.8	16	14.6	14	12.8	2	1.8	81	74.1
Alexandria City	34	21.3	3	1.9	24	15.1	10	6.3	2	1.3	73	45.8
Alleghany County	6	40.4	0	0.0	7	47.1	4	26.9	0	0.0	17	114.4
Amelia County	13	98.9	0	0.0	1	7.6	4	30.4	0	0.0	18	136.9
Amherst County	19	60.1	3	9.5	14	44.3	7	22.1	0	0.0	43	136.1
Appomattox County	8	50.3	1	6.3	7	44.0	2	12.6	1	6.3	19	119.4
Arlington County	20	8.4	1	0.4	37	15.6	11	4.6	5	2.1	74	31.2
Augusta County	36	47.6	1	1.3	13	17.2	14	18.5	1	1.3	66	87.4
Bath County	2	48.2	0	0.0	3	72.3	1	24.1	0	0.0	6	144.7
Bedford County	37	46.8	1	1.3	31	39.2	14	17.7	1	1.3	84	106.3
Bland County	1	15.9	0	0.0	2	31.8	2	31.8	0	0.0	5	79.6
Botetourt County	19	56.9	0	0.0	5	15.0	6	18.0	0	0.0	30	89.8
Bristol City	6	35.8	1	6.0	10	59.7	2	11.9	0	0.0	19	113.4
Brunswick County	17	104.7	0	0.0	4	24.6	1	6.2	0	0.0	22	135.5
Buchanan County	11	52.4	1	4.8	6	28.6	5	23.8	2	9.5	25	119.0
Buckingham County	10	58.3	1	5.8	9	52.5	4	23.3	2	11.7	26	151.6
Buena Vista City	3	46.3	1	15.4	3	46.3	1	15.4	1	15.4	9	138.9
Campbell County	27	49.2	3	5.5	13	23.7	5	9.1	2	3.6	50	91.1
Caroline County	22	71.6	0	0.0	14	45.6	4	13.0	0	0.0	41	133.4
Carroll County	7	23.5	1	3.4	5	16.8	9	30.2	0	0.0	22	73.8
Charles City County	7	100.5	1	14.4	5	71.8	1	14.4	0	0.0	14	201.1
Charlotte County	13	109.4	0	0.0	4	33.7	3	25.3	0	0.0	20	168.4
Charlottesville City	19	40.2	2	4.2	10	21.2	3	6.3	1	2.1	35	74.0
Chesapeake City	85	34.7	14	5.7	48	19.6	42	17.2	4	1.6	193	78.8
Chesterfield County	170	48.2	31	8.8	57	16.2	51	14.5	7	2.0	317	89.9
Clarke County	11	75.2	1	6.8	5	34.2	1	6.8	0	0.0	18	123.1
Colonial Heights City	9	51.8	0	0.0	4	23.0	5	28.8	0	0.0	18	103.6
Covington City	3	54.2	0	0.0	2	36.1	1	18.1	0	0.0	6	108.3
Craig County	3	58.5	0	0.0	3	58.5	0	0.0	0	0.0	6	116.9

Virginia Department of Health

	Accident	Accident	Homicide	Homicide	Natural	Natural	Suicide	Suicide	Undet.	Undet.		Total
Locality of Residence	Total	Rate	Total	Rate	Total	Rate	Total	Rate	Total	Rate	Total	Rate
Culpeper County	25	47.5	0	0.0	10	19.0	7	13.3	0	0.0	42	79.8
Cumberland County	4	40.3	1	10.1	4	40.3	1	10.1	0	0.0	10	100.7
Danville City	26	64.9	6	15.0	19	47.4	4	10.0	0	0.0	55	137.3
Dickenson County	12	83.8	2	14.0	4	27.9	4	27.9	1	7.0	23	160.6
Dinwiddie County	17	59.6	0	0.0	10	35.0	4	14.0	1	3.5	32	112.1
Emporia City	0	0.0	1	18.7	3	56.1	0	0.0	1	18.7	5	93.5
Essex County	6	54.8	0	0.0	5	45.6	3	27.4	0	0.0	14	127.8
Fairfax City	8	33.3	0	0.0	6	25.0	4	16.7	0	0.0	18	74.9
Fairfax County	236	20.6	15	1.3	144	12.5	98	8.5	6	0.5	499	43.5
Falls Church City	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Fauquier County	34	47.7	2	2.8	20	28.1	7	9.8	2	2.8	65	91.3
Floyd County	12	76.2	0	0.0	1	6.3	2	12.7	1	6.3	16	101.6
Fluvanna County	7	25.7	1	3.7	6	22.0	5	18.3	1	3.7	20	73.3
Franklin City	2	25.1	2	25.1	3	37.7	1	12.6	0	0.0	8	100.4
Franklin County	31	55.3	3	5.4	12	21.4	8	14.3	2	3.6	56	99.9
Frederick County	39	43.7	2	2.2	12	13.4	17	19.0	0	0.0	70	78.4
Fredericksburg City	13	44.8	3	10.3	8	27.6	3	10.3	1	3.4	28	96.4
Galax City	4	63.0	0	0.0	0	0.0	2	31.5	0	0.0	6	94.5
Giles County	5	29.9	0	0.0	3	17.9	2	12.0	1	6.0	11	65.8
Gloucester County	12	32.1	2	5.4	13	34.8	6	16.1	0	0.0	33	88.4
Goochland County	13	54.7	0	0.0	13	54.7	4	16.8	0	0.0	30	126.3
Grayson County	5	32.2	0	0.0	3	19.3	0	0.0	0	0.0	8	51.4
Greene County	11	55.5	1	5.0	7	35.3	3	15.1	0	0.0	22	111.0
Greensville County	5	44.1	0	0.0	6	52.9	3	26.5	0	0.0	14	123.5
Halifax County	17	50.1	5	14.7	12	35.4	3	8.8	1	2.9	38	112.1
Hampton City	86	63.9	14	10.4	38	28.3	22	16.4	3	2.2	163	121.2
Hanover County	50	46.4	2	1.9	18	16.7	21	19.5	1	0.9	92	85.4
Harrisonburg City	17	32.1	0	0.0	8	15.1	2	3.8	1	1.9	28	52.8
Henrico County	146	44.1	20	6.0	55	16.6	39	11.8	9	2.7	269	81.3
Henry County	40	79.1	4	7.9	19	37.6	10	19.8	0	0.0	73	144.4

	Accident	Accident	Homicide	Homicide	Natural	Natural	Suicide	Suicide	Undet.	Undet.		Total
Locality of Residence	Total	Rate	Total	Rate	Total	Rate	Total	Rate	Total	Rate	Total	Rate
Highland County	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Hopewell City	12	53.3	2	8.9	10	44.4	10	44.4	1	4.4	35	155.4
Isle of Wight County	21	56.6	1	2.7	10	26.9	6	16.2	0	0.0	38	102.4
James City County	22	28.7	1	1.3	15	19.6	12	15.7	2	2.6	52	68.0
King and Queen County	5	71.2	0	0.0	0	0.0	2	28.5	0	0.0	7	99.6
King George County	14	52.2	0	0.0	5	18.6	2	7.5	0	0.0	21	78.3
King William County	5	29.2	1	5.8	3	17.5	6	35.0	0	0.0	15	87.5
Lancaster County	4	37.7	0	0.0	7	66.0	4	37.7	0	0.0	15	141.5
Lee County	9	38.4	1	4.3	7	29.9	5	21.3	0	0.0	22	93.9
Lexington City	4	53.7	0	0.0	1	13.4	0	0.0	0	0.0	5	67.2
Loudoun County	56	13.5	1	0.2	33	8.0	32	7.7	3	0.7	125	30.2
Louisa County	23	61.2	3	8.0	17	45.2	13	34.6	1	2.7	57	151.6
Lunenburg County	10	82.0	3	24.6	5	41.0	1	8.2	0	0.0	19	155.8
Lynchburg City	55	66.9	2	2.4	22	26.8	8	9.7	2	2.4	89	108.3
Madison County	10	75.4	0	0.0	1	7.5	5	37.7	0	0.0	16	120.7
Manassas City	14	34.1	2	4.9	7	17.0	2	4.9	1	2.4	26	63.3
Manassas Park City	5	28.6	0	0.0	2	11.4	1	5.7	0	0.0	8	45.8
Martinsville City	15	119.5	1	8.0	10	79.7	4	31.9	0	0.0	30	239.0
Mathews County	5	56.6	0	0.0	0	0.0	0	0.0	1	11.3	6	67.9
Mecklenburg County	18	58.8	3	9.8	3	9.8	4	13.1	1	3.3	29	94.8
Middlesex County	5	47.3	0	0.0	3	28.4	2	18.9	2	18.9	12	113.4
Montgomery County	31	31.5	1	1.0	12	12.2	16	16.2	1	1.0	61	61.9
Nelson County	10	67.0	0	0.0	3	20.1	5	33.5	0	0.0	18	120.6
New Kent County	13	56.3	2	8.7	3	13.0	1	4.3	1	4.3	20	86.6
Newport News City	83	46.3	29	16.2	41	22.9	22	12.3	6	3.3	181	101.0
Norfolk City	104	42.8	29	11.9	74	30.5	31	12.8	10	4.1	248	102.2
Northampton County	6	51.2	1	8.5	3	25.6	4	34.2	0	0.0	14	119.6
Northumberland County	9	74.4	1	8.3	4	33.1	5	41.3	0	0.0	19	157.1
Norton City	1	25.1	0	0.0	1	25.1	0	0.0	0	0.0	2	50.2
Nottoway County	17	111.6	0	0.0	6	39.4	1	6.6	0	0.0	24	157.6

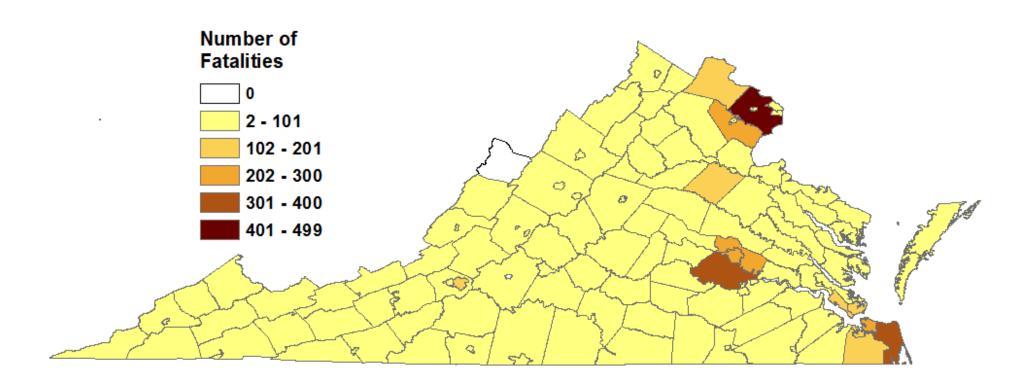
	Accident	Accident	Homicide	Homicide	Natural	Natural	Suicide	Suicide	Undet.	Undet.		Total
Locality of Residence	Total	Rate	Total	Rate	Total	Rate	Total	Rate	Total	Rate	Total	Rate
Orange County	36	97.2	1	2.7	3	8.1	3	8.1	2	5.4	45	121.5
Page County	12	50.2	1	4.2	7	29.3	3	12.6	0	0.0	23	96.2
Patrick County	8	45.4	0	0.0	3	17.0	6	34.1	0	0.0	17	96.5
Petersburg City	24	76.6	17	54.2	25	79.8	4	12.8	1	3.2	71	226.5
Pittsylvania County	39	64.6	7	11.6	19	31.5	13	21.5	1	1.7	79	130.9
Poquoson City	4	32.6	0	0.0	2	16.3	3	24.4	0	0.0	9	73.3
Portsmouth City	57	60.4	16	16.9	30	31.8	12	12.7	5	5.3	120	127.1
Powhatan County	14	47.2	2	6.7	9	30.4	4	13.5	1	3.4	30	101.2
Prince Edward County	17	74.6	1	4.4	5	21.9	2	8.8	0	0.0	25	109.6
Prince George County	14	36.5	1	2.6	7	18.3	6	15.6	1	2.6	29	75.6
Prince William County	108	23.0	12	2.6	58	12.3	37	7.9	4	0.9	220	46.8
Pulaski County	24	70.5	2	5.9	14	41.1	6	17.6	1	2.9	47	138.1
Radford City	7	38.4	0	0.0	6	32.9	1	5.5	1	5.5	15	82.2
Rappahannock County	6	81.4	0	0.0	5	67.8	6	81.4	0	0.0	17	230.7
Richmond City	130	56.4	37	16.1	61	26.5	25	10.8	7	3.0	260	112.8
Richmond County	12	133.0	0	0.0	3	33.2	2	22.2	0	0.0	17	188.4
Roanoke City	76	76.7	9	9.1	36	36.3	19	19.2	3	3.0	143	144.2
Roanoke County	44	46.7	4	4.2	19	20.2	8	8.5	0	0.0	75	79.6
Rockbridge County	18	79.7	0	0.0	5	22.2	4	17.7	0	0.0	27	119.6
Rockingham County	41	50.0	2	2.4	13	15.9	14	17.1	0	0.0	70	85.4
Russell County	15	56.4	0	0.0	11	41.4	6	22.6	1	3.8	33	124.1
Salem City	16	63.2	0	0.0	5	19.8	2	7.9	1	4.0	24	94.9
Scott County	7	32.5	0	0.0	3	13.9	7	32.5	0	0.0	17	78.8
Shenandoah County	24	55.0	3	6.9	5	11.5	8	18.3	1	2.3	41	94.0
Smyth County	13	43.2	2	6.6	13	43.2	6	19.9	0	0.0	34	112.9
Southampton County	10	56.7	2	11.3	9	51.0	4	22.7	0	0.0	25	141.8
Spotsylvania County	71	52.1	6	4.4	26	19.1	17	12.5	2	1.5	122	89.6
Stafford County	50	32.7	4	2.6	17	11.1	11	7.2	3	2.0	85	55.6
Staunton City	13	52.1	0	0.0	8	32.1	4	16.0	0	0.0	25	100.3
Suffolk City	32	34.7	7	7.6	15	16.3	11	11.9	5	5.4	70	76.0

Locality of Residence	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Surry County	6	93.4	0	0.0	3	46.7	1	15.6	0	0.0	10	155.7
Sussex County	12	107.5	2	17.9	8	71.7	2	17.9	0	0.0	24	215.1
Tazewell County	26	64.0	0	0.0	13	32.0	9	22.2	1	2.5	49	120.7
Virginia Beach City	152	33.8	34	7.6	80	17.8	54	12.0	8	1.8	328	72.9
Warren County	29	72.2	1	2.5	14	34.9	14	34.9	1	2.5	59	146.9
Washington County	13	24.2	0	0.0	12	22.3	9	16.7	0	0.0	34	63.3
Waynesboro City	12	53.0	1	4.4	7	30.9	7	30.9	0	0.0	27	119.3
Westmoreland County	13	72.2	0	0.0	4	22.2	3	16.7	0	0.0	21	116.6
Williamsburg City	3	20.1	0	0.0	4	26.7	1	6.7	0	0.0	8	53.5
Winchester City	14	49.9	1	3.6	10	35.6	4	14.2	0	0.0	29	103.3
Wise County	18	48.2	1	2.7	10	26.8	3	8.0	0	0.0	32	85.6
Wythe County	10	34.9	2	7.0	8	27.9	7	24.4	0	0.0	27	94.1
York County	28	41.0	1	1.5	12	17.6	8	11.7	2	2.9	51	74.7
Subtotal (in-state)	3421	40.1	423	5.0	1772	20.8	1098	12.9	147	1.7	6866	69.0
Out of State	282	ND	32	ND	92	ND	57	ND	14	ND	477	ND
Unknown	16	ND	6	ND	18	ND	4	ND	3	ND	50	ND
Subtotal (out-of-state)	298	ND	38	ND	110	ND	61	ND	17	ND	527	ND
TOTAL	3719	43.6	461	5.4	1882	22.0	1159	13.6	164	1.9	7393	86.6

^{* &#}x27;ND' represents no denominator for which to calculate rate

^{**} Fatalities certified as 'undefined for fetal deaths' manner of death are omitted by counts and rates by locality because of small case counts, but are included in the summed total

Map 1.1 Number of OCME Cases by Locality of Residence, 2019



Map 1.2 Rates of OCME Cases by Locality of Residence, 2019

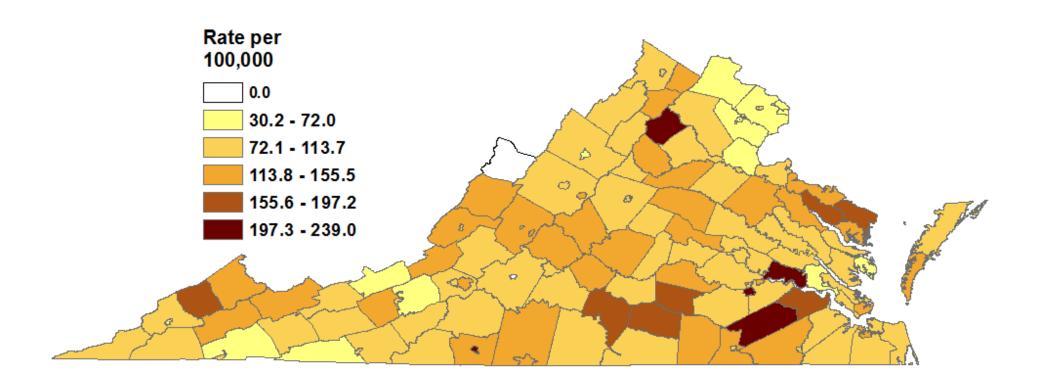


Table 1.9 Number and Rate of OCME Cases by Manner of Death and Locality of Injury, 2019

Locality of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Accomack County	11	34.0	5	15.5	16	49.5	8	24.8	0	0.0	40	123.8
Albemarle County	56	51.2	2	1.8	7	6.4	13	11.9	2	1.8	80	73.2
Alexandria City	35	22.0	2	1.3	34	21.3	9	5.6	2	1.3	82	51.4
Alleghany County	6	40.4	0	0.0	8	53.8	4	26.9	0	0.0	18	121.1
Amelia County	9	68.5	0	0.0	0	0.0	4	30.4	0	0.0	13	98.9
Amherst County	18	57.0	3	9.5	14	44.3	6	19.0	0	0.0	41	129.7
Appomattox County	9	56.6	0	0.0	6	37.7	3	18.9	1	6.3	19	119.4
Arlington County	25	10.6	3	1.3	43	18.2	18	7.6	3	1.3	92	38.8
Augusta County	43	56.9	0	0.0	13	17.2	16	21.2	1	1.3	74	97.9
Bath County	5	120.6	0	0.0	4	96.5	1	24.1	0	0.0	10	241.1
Bedford County	40	50.6	1	1.3	29	36.7	15	19.0	1	1.3	86	108.9
Bland County	1	15.9	0	0.0	2	31.8	2	31.8	0	0.0	5	79.6
Botetourt County	14	41.9	0	0.0	4	12.0	8	23.9	0	0.0	26	77.8
Bristol City	4	23.9	1	6.0	11	65.6	3	17.9	1	6.0	20	119.3
Brunswick County	19	117.1	0	0.0	2	12.3	1	6.2	0	0.0	22	135.5
Buchanan County	13	61.9	1	4.8	8	38.1	6	28.6	1	4.8	29	138.1
Buckingham County	12	70.0	0	0.0	2	11.7	6	35.0	2	11.7	22	128.3
Buena Vista City	2	30.9	0	0.0	2	30.9	1	15.4	1	15.4	6	92.6
Campbell County	25	45.5	3	5.5	13	23.7	7	12.8	2	3.6	50	91.1
Caroline County	21	68.3	0	0.0	3	9.8	6	19.5	0	0.0	31	100.9
Carroll County	10	33.6	1	3.4	4	13.4	8	26.9	0	0.0	23	77.2
Charles City County	8	114.9	1	14.4	0	0.0	1	14.4	0	0.0	10	143.6
Charlotte County	9	75.8	0	0.0	3	25.3	1	8.4	0	0.0	13	109.4
Charlottesville City	23	48.7	2	4.2	4	8.5	5	10.6	1	2.1	35	74.0
Chesapeake City	80	32.7	9	3.7	47	19.2	39	15.9	5	2.0	180	73.5
Chesterfield County	143	40.5	13	3.7	18	5.1	57	16.2	9	2.6	242	68.6
Clarke County	13	88.9	1	6.8	4	27.4	2	13.7	0	0.0	20	136.8
Colonial Heights City	8	46.1	0	0.0	1	5.8	4	23.0	0	0.0	13	74.8
Covington City	1	18.1	0	0.0	2	36.1	1	18.1	0	0.0	4	72.2
Craig County	2	39.0	0	0.0	3	58.5	0	0.0	0	0.0	5	97.4

Virginia Department of Health

Locality of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Culpeper County	26	49.4	1	1.9	8	15.2	4	7.6	1	1.9	40	76.0
Cumberland County	4	40.3	3	30.2	0	0.0	1	10.1	0	0.0	8	80.5
Danville City	26	64.9	8	20.0	25	62.4	5	12.5	1	2.5	65	162.3
Dickenson County	10	69.8	2	14.0	4	27.9	4	27.9	1	7.0	21	146.7
Dinwiddie County	25	87.6	0	0.0	5	17.5	4	14.0	1	3.5	35	122.6
Emporia City	5	93.5	1	18.7	1	18.7	0	0.0	1	18.7	8	149.6
Essex County	5	45.6	0	0.0	3	27.4	3	27.4	0	0.0	11	100.4
Fairfax City	9	37.5	0	0.0	10	41.6	6	25.0	0	0.0	25	104.1
Fairfax County	250	21.8	13	1.1	141	12.3	99	8.6	7	0.6	510	44.4
Falls Church City	2	13.7	0	0.0	0	0.0	0	0.0	0	0.0	2	13.7
Fauquier County	32	44.9	1	1.4	24	33.7	9	12.6	1	1.4	67	94.1
Floyd County	12	76.2	1	6.3	1	6.3	2	12.7	1	6.3	17	107.9
Fluvanna County	7	25.7	1	3.7	1	3.7	5	18.3	1	3.7	15	55.0
Franklin City	1	12.6	2	25.1	2	25.1	0	0.0	0	0.0	5	62.8
Franklin County	34	60.7	3	5.4	11	19.6	7	12.5	2	3.6	57	101.7
Frederick County	41	45.9	2	2.2	15	16.8	19	21.3	0	0.0	77	86.2
Fredericksburg City	15	51.7	3	10.3	1	3.4	4	13.8	1	3.4	24	82.7
Galax City	4	63.0	0	0.0	0	0.0	2	31.5	0	0.0	6	94.5
Giles County	4	23.9	0	0.0	3	17.9	2	12.0	1	6.0	10	59.8
Gloucester County	12	32.1	1	2.7	12	32.1	6	16.1	0	0.0	31	83.0
Goochland County	12	50.5	0	0.0	2	8.4	4	16.8	0	0.0	18	75.8
Grayson County	8	51.4	2	12.9	4	25.7	1	6.4	0	0.0	15	96.5
Greene County	9	45.4	1	5.0	4	20.2	3	15.1	0	0.0	17	85.8
Greensville County	7	61.8	0	0.0	4	35.3	2	17.6	0	0.0	13	114.7
Halifax County	16	47.2	4	11.8	12	35.4	4	11.8	1	2.9	37	109.1
Hampton City	89	66.2	14	10.4	37	27.5	18	13.4	3	2.2	161	119.7
Hanover County	53	49.2	0	0.0	3	2.8	23	21.3	2	1.9	81	75.2
Harrisonburg City	17	32.1	0	0.0	9	17.0	4	7.5	1	1.9	31	58.5
Henrico County	157	47.5	9	2.7	14	4.2	38	11.5	7	2.1	225	68.0
Henry County	40	79.1	2	4.0	12	23.7	10	19.8	0	0.0	64	126.6

Locality of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Highland County	2	91.3	0	0.0	0	0.0	0	0.0	0	0.0	2	91.3
Hopewell City	13	57.7	5	22.2	1	4.4	9	39.9	1	4.4	29	128.7
Isle of Wight County	16	43.1	1	2.7	11	29.6	8	21.6	0	0.0	36	97.0
James City County	24	31.4	2	2.6	17	22.2	11	14.4	2	2.6	56	73.2
King and Queen County	6	85.4	0	0.0	0	0.0	2	28.5	0	0.0	8	113.9
King George County	8	29.8	0	0.0	1	3.7	2	7.5	0	0.0	11	41.0
King William County	2	11.7	1	5.8	2	11.7	5	29.2	0	0.0	10	58.3
Lancaster County	7	66.0	1	9.4	1	9.4	4	37.7	0	0.0	13	122.6
Lee County	9	38.4	2	8.5	7	29.9	6	25.6	0	0.0	24	102.5
Lexington City	5	67.2	0	0.0	1	13.4	0	0.0	0	0.0	6	80.6
Loudoun County	61	14.8	0	0.0	35	8.5	35	8.5	3	0.7	134	32.4
Louisa County	24	63.8	4	10.6	6	16.0	12	31.9	0	0.0	46	122.4
Lunenburg County	10	82.0	3	24.6	2	16.4	1	8.2	0	0.0	16	131.2
Lynchburg City	59	71.8	2	2.4	23	28.0	6	7.3	2	2.4	92	112.0
Madison County	8	60.3	0	0.0	1	7.5	6	45.2	0	0.0	15	113.1
Manassas City	14	34.1	3	7.3	9	21.9	2	4.9	1	2.4	29	70.6
Manassas Park City	2	11.4	0	0.0	3	17.2	2	11.4	0	0.0	7	40.1
Martinsville City	12	95.6	2	15.9	9	71.7	3	23.9	0	0.0	26	207.1
Mathews County	5	56.6	0	0.0	0	0.0	0	0.0	1	11.3	6	67.9
Mecklenburg County	20	65.4	3	9.8	1	3.3	6	19.6	1	3.3	31	101.4
Middlesex County	10	94.5	1	9.5	0	0.0	2	18.9	0	0.0	13	122.9
Montgomery County	34	34.5	1	1.0	12	12.2	17	17.3	1	1.0	65	66.0
Nelson County	10	67.0	1	6.7	1	6.7	5	33.5	0	0.0	17	113.9
New Kent County	14	60.6	1	4.3	0	0.0	2	8.7	1	4.3	18	78.0
Newport News City	89	49.7	26	14.5	41	22.9	24	13.4	7	3.9	187	104.3
Norfolk City	125	51.5	38	15.7	70	28.8	39	16.1	6	2.5	278	114.5
Northampton County	6	51.2	0	0.0	5	42.7	4	34.2	0	0.0	15	128.1
Northumberland County	8	66.1	1	8.3	2	16.5	4	33.1	0	0.0	15	124.0
Norton City	1	25.1	0	0.0	1	25.1	0	0.0	0	0.0	2	50.2
Nottoway County	20	131.3	1	6.6	3	19.7	2	13.1	0	0.0	26	170.7

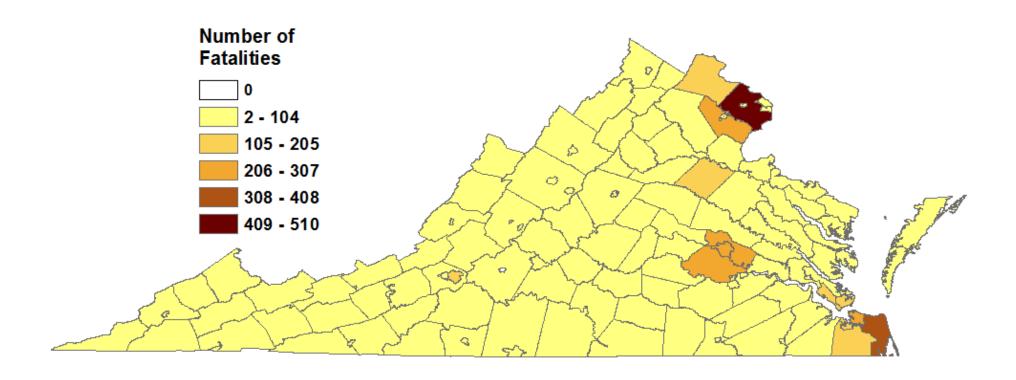
Locality of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Orange County	29	78.3	0	0.0	3	8.1	4	10.8	2	5.4	38	102.6
Page County	16	66.9	1	4.2	7	29.3	3	12.6	0	0.0	27	113.0
Patrick County	8	45.4	0	0.0	5	28.4	6	34.1	0	0.0	19	107.9
Petersburg City	24	76.6	21	67.0	4	12.8	5	16.0	2	6.4	56	178.7
Pittsylvania County	39	64.6	8	13.3	20	33.1	13	21.5	0	0.0	80	132.6
Poquoson City	4	32.6	0	0.0	2	16.3	3	24.4	0	0.0	9	73.3
Portsmouth City	57	60.4	18	19.1	34	36.0	15	15.9	7	7.4	131	138.8
Powhatan County	11	37.1	0	0.0	3	10.1	3	10.1	1	3.4	18	60.7
Prince Edward County	15	65.8	1	4.4	2	8.8	3	13.2	0	0.0	21	92.1
Prince George County	19	49.5	0	0.0	4	10.4	7	18.3	1	2.6	31	80.8
Prince William County	99	21.0	14	3.0	66	14.0	33	7.0	5	1.1	217	46.1
Pulaski County	30	88.2	1	2.9	14	41.1	5	14.7	1	2.9	51	149.9
Radford City	8	43.8	1	5.5	7	38.4	1	5.5	1	5.5	18	98.6
Rappahannock County	7	95.0	0	0.0	3	40.7	4	54.3	0	0.0	14	190.0
Richmond City	172	74.6	68	29.5	14	6.1	31	13.5	11	4.8	296	128.5
Richmond County	10	110.8	0	0.0	2	22.2	2	22.2	0	0.0	14	155.2
Roanoke City	75	75.6	15	15.1	41	41.4	17	17.1	3	3.0	151	152.3
Roanoke County	49	52.0	1	1.1	28	29.7	9	9.6	0	0.0	87	92.4
Rockbridge County	20	88.6	1	4.4	6	26.6	4	17.7	0	0.0	31	137.3
Rockingham County	40	48.8	2	2.4	15	18.3	15	18.3	0	0.0	72	87.9
Russell County	12	45.1	0	0.0	10	37.6	7	26.3	2	7.5	31	116.6
Salem City	22	87.0	0	0.0	6	23.7	3	11.9	1	4.0	32	126.5
Scott County	9	41.7	1	4.6	5	23.2	8	37.1	0	0.0	23	106.6
Shenandoah County	26	59.6	3	6.9	5	11.5	10	22.9	1	2.3	45	103.2
Smyth County	9	29.9	0	0.0	16	53.1	3	10.0	1	3.3	29	96.3
Southampton County	13	73.7	1	5.7	15	85.1	4	22.7	0	0.0	33	187.2
Spotsylvania County	87	63.9	6	4.4	13	9.5	19	13.9	2	1.5	127	93.2
Stafford County	53	34.7	4	2.6	17	11.1	13	8.5	3	2.0	90	58.9
Staunton City	12	48.1	0	0.0	8	32.1	4	16.0	0	0.0	24	96.3
Suffolk City	31	33.7	6	6.5	12	13.0	8	8.7	3	3.3	60	65.1

Locality of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Surry County	5	77.9	0	0.0	0	0.0	1	15.6	0	0.0	6	93.4
Sussex County	17	152.3	2	17.9	2	17.9	3	26.9	0	0.0	24	215.1
Tazewell County	31	76.4	0	0.0	13	32.0	7	17.2	1	2.5	52	128.1
Virginia Beach City	149	33.1	36	8.0	79	17.6	55	12.2	11	2.4	331	73.6
Warren County	27	67.2	1	2.5	13	32.4	12	29.9	1	2.5	54	134.4
Washington County	16	29.8	2	3.7	12	22.3	10	18.6	1	1.9	41	76.3
Waynesboro City	13	57.4	2	8.8	4	17.7	6	26.5	0	0.0	25	110.5
Westmoreland County	13	72.2	0	0.0	2	11.1	3	16.7	0	0.0	19	105.5
Williamsburg City	6	40.1	0	0.0	5	33.4	3	20.1	0	0.0	14	93.6
Winchester City	19	67.7	1	3.6	10	35.6	3	10.7	0	0.0	33	117.5
Wise County	18	48.2	1	2.7	11	29.4	5	13.4	0	0.0	35	93.6
Wythe County	13	45.3	4	13.9	10	34.9	7	24.4	0	0.0	34	118.5
York County	22	32.2	1	1.5	9	13.2	9	13.2	2	2.9	43	63.0
Subtotal (in-state)	3576	41.9	444	5.2	1497	17.5	1149	13.5	154	1.8	6826	80.0
Out of State	98	ND	7	ND	6	ND	4	ND	3	ND	118	ND
Unknown	45	ND	10	ND	379	ND	6	ND	7	ND	449	ND
Subtotal (out-of-state)	143	ND	17	ND	385	ND	10	ND	10	ND	567	ND
TOTAL	3719	43.6	461	5.4	1882	22.0	1159	13.6	164	1.9	7393	86.6

^{* &#}x27;ND' represents no denominator for which to calculate rate

^{**} Fatalities certified as 'undefined for fetal deaths' manner of death are omitted by counts and rates by locality because of small case counts, but are included in the summed total

Map 1.3 Number of OCME Cases by Locality of Injury, 2019



Map 1.4 Rate of OCME Cases by Locality of Injury, 2019

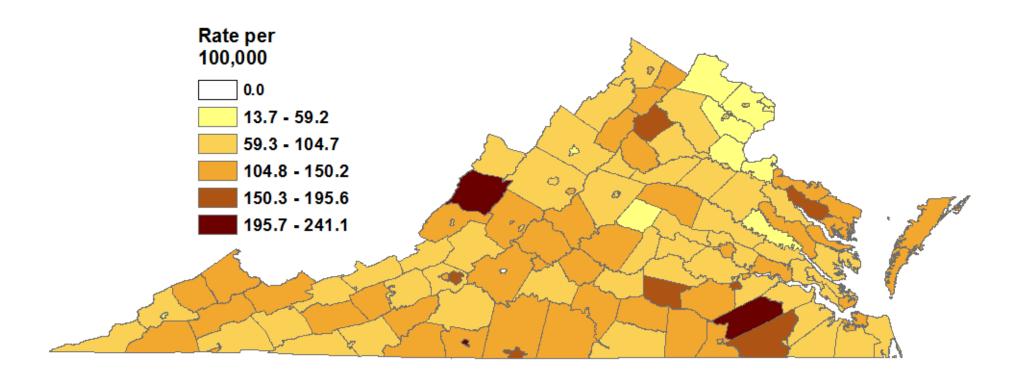


Table 1.10 Number of OCME Cases by Manner of Death and Locality of Death, 2019

Locality of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undet. Total	Total
Accomack County	9	6	16	8	0	39
Albemarle County	53	1	18	11	0	83
Alexandria City	41	1	35	10	2	89
Alleghany County	6	0	8	5	0	19
Amelia County	8	0	1	4	0	13
Amherst County	13	3	13	4	0	33
Appomattox County	7	0	5	3	1	16
Arlington County	39	3	43	19	4	108
Augusta County	38	0	14	18	1	72
Bath County	3	0	4	1	0	8
Bedford County	19	1	27	14	1	62
Bland County	1	0	2	2	0	5
Botetourt County	6	0	4	7	0	17
Bristol City	5	0	11	4	0	20
Brunswick County	16	0	4	1	0	21
Buchanan County	15	1	6	6	1	29
Buckingham County	9	0	9	3	2	23
Buena Vista City	1	0	2	1	0	4
Campbell County	14	1	13	6	1	35
Caroline County	11	0	9	5	0	25
Carroll County	7	3	3	9	0	22
Charles City County	5	1	5	1	0	12
Charlotte County	7	0	5	1	0	13
Charlottesville City	101	5	16	15	5	142
Chesapeake City	72	7	46	35	5	165
Chesterfield County	100	10	46	49	7	213
Clarke County	9	1	4	2	0	16
Colonial Heights City	6	0	3	5	0	14
Covington City	1	0	1	0	0	2
Craig County	1	0	3	0	0	4
Culpeper County	17	0	7	4	0	28
Cumberland County	2	2	4	1	0	9
Danville City	26	6	25	6	2	65
Dickenson County	9	2	3	5	1	20
Dinwiddie County	17	0	11	3	0	31
Emporia City	5	1	6	0	1	13
Essex County	4	0	4	3	0	11
Fairfax City	6	0	7	6	0	19
Fairfax County	312	23	145	101	9	592
Falls Church City	0	0	0	0	0	0
Fauquier County	25	2	25	8	0	60
Floyd County	10	1	1	2	1	15

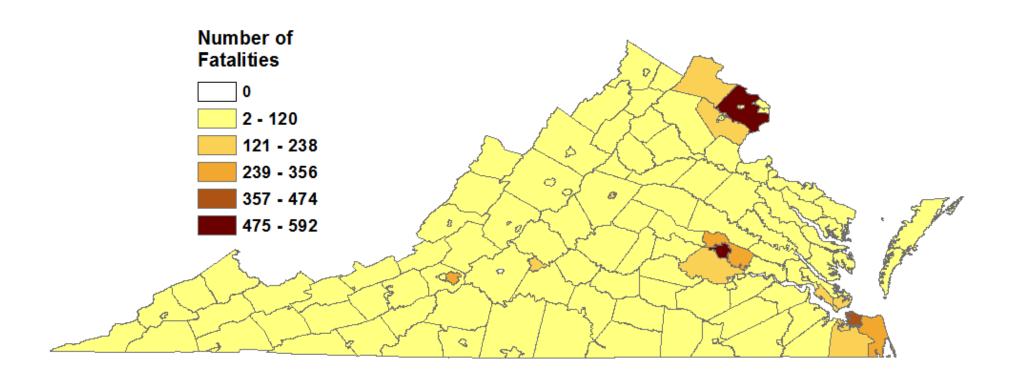
Locality of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undet. Total	Total
Fluvanna County	5	1	3	5	1	15
Franklin City	3	2	3	0	0	8
Franklin County	27	4	11	7	2	51
Frederick County	15	1	14	17	0	47
Fredericksburg City	64	5	14	7	3	95
Galax City	4	0	1	2	0	7
Giles County	6	0	3	2	2	13
Gloucester County	8	3	12	5	0	28
Goochland County	10	0	6	4	0	20
Grayson County	7	3	4	1	0	15
Greene County	5	1	6	3	0	15
Greensville County	5	0	3	2	0	10
Halifax County	14	4	12	4	1	35
Hampton City	74	15	36	16	3	144
Hanover County	49	0	15	19	2	85
Harrisonburg City	14	0	8	3	0	25
Henrico County	147	7	50	32	6	242
Henry County	27	1	12	9	0	49
Highland County	2	0	0	0	0	2
Hopewell City	13	4	11	8	1	37
Isle of Wight County	12	1	9	8	0	30
James City County	16	1	13	10	3	43
King and Queen County	5	0	0	2	0	7
King George County	4	0	4	2	0	10
King William County	1	0	2	5	0	8
Lancaster County	8	0	7	4	0	19
Lee County	6	2	6	6	0	20
Lexington City	1	0	2	0	1	4
Loudoun County	50	0	37	33	2	122
Louisa County	15	3	16	11	0	45
Lunenburg County	6	2	4	1	0	13
Lynchburg City	99	4	28	8	3	142
Madison County	5	0	1	6	0	12
Manassas City	18	2	9	3	1	33
Manassas Park City	1	0	2	1	0	4
Martinsville City	12	3	8	5	0	28
Mathews County	2	0	0	0	1	3
Mecklenburg County	16	2	5	6	1	30
Middlesex County	9	0	3	2	1	15
Montgomery County	28	0	14	17	0	59
Nelson County	7	1	3	5	0	16
New Kent County	7	1	3	2	0	13

Locality of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undet. Total	Total
Newport News City	115	27	43	27	6	219
Norfolk City	193	48	71	53	10	375
Northampton County	4	0	4	4	0	12
Northumberland County	2	1	5	4	0	12
Norton City	6	1	4	0	0	11
Nottoway County	15	1	2	2	0	20
Orange County	22	0	3	4	2	31
Page County	11	0	7	3	0	21
Patrick County	8	0	5	5	0	18
Petersburg City	31	19	37	8	3	98
Pittsylvania County	25	10	19	12	0	66
Poquoson City	4	0	2	2	0	8
Portsmouth City	54	16	36	11	6	123
Powhatan County	6	0	9	3	0	18
Prince Edward County	15	2	10	3	0	30
Prince George County	15	0	6	6	1	28
Prince William County	82	12	67	32	5	198
Pulaski County	21	1	14	5	1	42
Radford City	5	1	5	1	0	12
Rappahannock County	3	0	3	4	0	10
Richmond City	316	80	105	55	15	572
Richmond County	7	0	4	2	0	13
Roanoke City	230	19	57	24	6	336
Roanoke County	19	1	20	7	0	47
Rockbridge County	13	1	5	3	0	22
Rockingham County	36	2	16	14	1	69
Russell County	12	0	10	7	2	31
Salem City	26	0	4	3	1	34
Scott County	9	1	5	8	1	24
Shenandoah County	17	3	5	8	1	34
Smyth County	8	0	16	3	1	28
Southampton County	10	1	15	4	0	30
Spotsylvania County	66	4	29	16	0	115
Stafford County	34	4	16	13	3	70
Staunton City	5	0	8	2	0	15
Suffolk City	26	7	13	7	4	57
Surry County	4	0	3	1	0	8
Sussex County	12	1	8	3	0	24
Tazewell County	22	0	14	7	0	43
Virginia Beach City	147	30	80	52	12	321
Warren County	22	1	13	11	1	48
Washington County	16	2	12	9	1	40

Locality of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undet. Total	Total
Waynesboro City	8	2	3	6	0	19
Westmoreland County	10	0	6	3	0	19
Williamsburg City	4	0	5	3	0	12
Winchester City	73	2	11	7	1	94
Wise County	16	0	10	5	0	31
Wythe County	11	3	10	6	0	30
York County	18	1	13	10	2	44
Subtotal (in-state)	3717	458	1882	1159	164	7388
Out of State	1	3	0	0	0	4
Unknown	1	0	0	0	0	1
Subtotal (out-of-state)	2	3	0	0	0	5
TOTAL	3719	461	1882	1159	164	7393

^{*} Fatalities certified as 'undefined for fetal deaths' manner of death are omitted by counts and rates by locality because of small case counts, but are included in the summed total

Map 1.5 Number of OCME Cases by Locality of Death, 2019



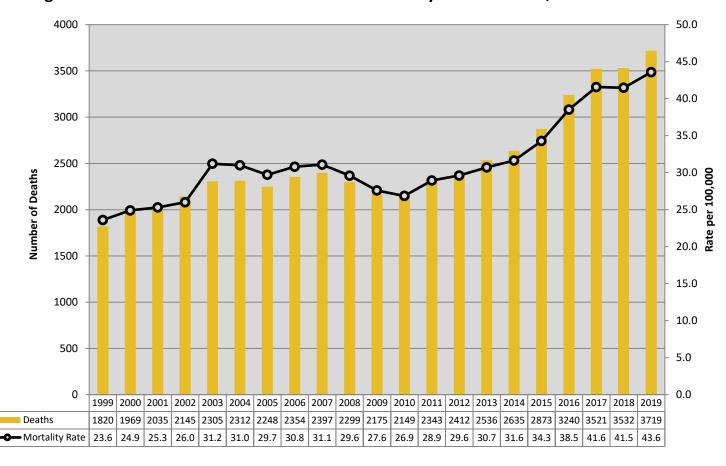
SECTION 2: MANNERS OF DEATH

ACCIDENTAL DEATHS (N=3,719)

Accidents accounted for 50.3% of the deaths investigated by the OCME in 2019, which is the greatest proportion of deaths by any manner.

- The total number of accidental deaths increased 5.3% in 2019 compared to 2018
- For the fourth year in a row, fatal drug overdoses were the most common cause of accidental death (40.2%), followed by accidental motor vehicle deaths (24.1%)
- Seniors 85 years and older had the highest mortality rate due to falls (249.9 per 100,000 persons)
- Of the 2,484 (66.8%) of decedents of accidental death that were tested for ethanol, 507 (20.4%) had ethanol detected through toxicology. Of those tested, 332 (13.4%) had a blood alcohol concentration of 0.08% or greater; the level of legal intoxication

Figure 2.1 Number and Rate of Accidental Deaths by Year of Death, 1999-2019



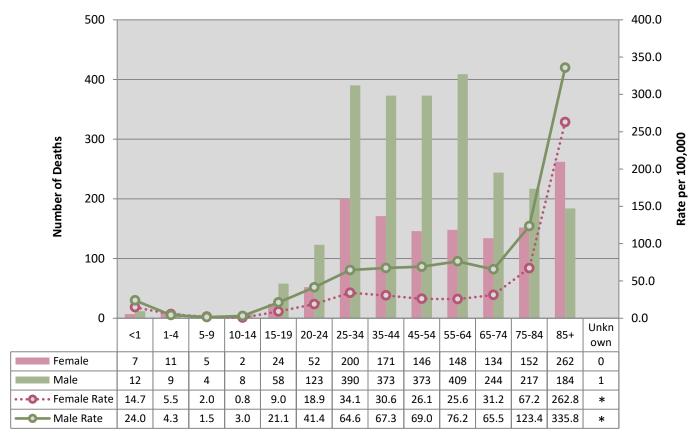


Figure 2.2 Number and Rate of Accidental Deaths by Age Group and Gender, 2019

^{*} No rate can be calculated

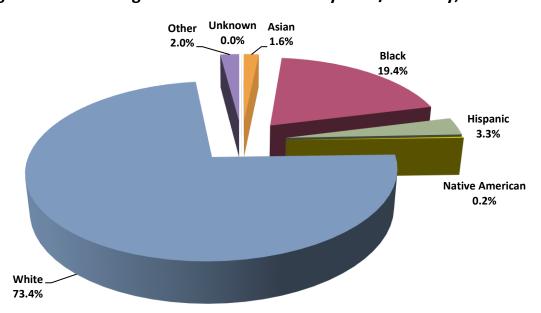


Figure 2.3 Percentage of Accidental Deaths by Race/Ethnicity, 2019



Figure 2.4 Number and Rate of Accidental Deaths by Race/Ethnicity and Gender, 2019

Note: Rates calculated from small sample sizes (<5 deaths) is considered unreliable and should be interpreted with caution (Native Americans)

^{*}No rate can be calculated

Table 2.1 Number of Accidental Death Cases by Cause and Method of Death, 2019

Method of	Death	Autopsied	Total Cases
Animal/Ins	ect		
	Bit, stung, or kicked by an animal/insect	2	6
Asphyxia			
	Carbon Monoxide poisoning (motor vehicle exhaust)	3	6
	Carbon Monoxide poisoning (other)	3	5
	Choked on food/foreign object	4	51
	Drowned	75	96
	Hanged	2	6
	Mechanical/Positional asphyxia	17	32
	Oxygen depletion/replacement	0	1
	Other asphyxia	5	7
	Strangled/neck compression	1	2
	Suffocated/Smothered	8	8
Drug Poiso	ning		
	Ingested and/or injected ethanol, illicit, prescription, and/or other type of drug	635	1496
Electrical			
	Contacted electrical current	4	5
Exposure			
	Exposed to cold	10	15
	Exposed to heat	4	12
Fall/Jump			
	Fell/Jumped from any height	51	881
Fire			
	Thermal burns and/or inhalation of combustion products	49	87
Judicial Exe	ecution		
	Judicial Execution	1	1
Motor Veh	icle Collision		
	All terrain vehicle	1	12
	Bicycle	1	17
	Boat	0	2
	Bus	1	4
	Car	39	367
	Construction equipment	0	2
	Dump truck	1	5
	Farm equipment	0	6
	Golf cart	0	2
	Lawnmower	1	3
	Mo-ped	0	14

Method of Death	Autopsied	Total Cases
Motorcycle	8	104
Motorized parachute	1	1
Multiple	1	3
Pickup truck	14	107
Skateboard	0	1
Sport utility vehicle	13	135
Tractor trailer	4	17
Train	1	9
Truck (other)	2	14
Van	7	38
Unspecified/Unknown	9	34
Traumatic Injury		
Accidental discharge of firearm		
Handgun	3	3
Rifle	1	1
Shotgun	0	1
Unknown	0	1
Explosion	2	2
Hit/Crushed by falling object	10	40
Other traumatic injury	1	11
Other/Undetermined		
Other	6	46
TOTAL ACCIDENTAL DEATHS	1001	3719

Table 2.2 Number and Rate of the Top 5 Accidental Methods of Death by Age Group, 2019

Method of Death

Age Group	Drow	ning	Drug Use		Fa	all	Fire/Si Inhala		Motor \		TOTAL
Стоир	Count	Rate	Count	Rate	Count	Rate	Count	Rate	Count	Rate	
<1	1	1.0	1	1.0	0	0.0	0	0.0	2	2.0	4
1-4	10	2.5	0	0.0	0	0.0	0	0.0	4	1.0	14
5-9	3	0.6	0	0.0	1	0.2	0	0.0	5	1.0	9
10-14	1	0.2	0	0.0	0	0.0	1	0.2	6	1.1	8
15-19	1	0.2	18	3.3	1	0.2		0.0	54	10.0	74
20-24	4	0.7	84	14.7	0	0.0	2	0.3	76	13.3	166
25-34	9	0.8	409	34.4	6	0.5	5	0.4	147	12.3	576
35-44	14	1.3	379	34.1	8	0.7	5	0.4	117	10.5	523
45-54	9	0.8	342	31.1	22	2.0	7	0.6	108	9.8	488
55-64	19	1.7	220	19.7	87	7.8	18	1.6	160	14.4	504
65-74	19	2.4	40	5.0	135	16.8	22	2.7	112	14.0	328
75-84	6	1.5	3	0.7	235	58.4	16	4.0	73	18.2	333
85+	0	0.0	0	0.0	386	249.9	10	6.5	33	21.4	429
Unknown	0	ND	0	ND	0	ND	1	ND	0	ND	1
TOTAL	96	1.1	1496	17.5	881	10.3	87	1.0	897	10.5	3457

Note: Highlighted pink cells indicate the highest rate among the method of death within the corresponding age group; rates are per 100,000; ND represents no denominator

Number of Deaths Unkn 15-19 <1 1-4 5-9 10-14 20-24 25-34 35-44 45-54 55-64 65-74 75-84 85+ own ■ No Ethanol 0.01-0.07% BAC ■>0.08% BAC

Figure 2.5 Number of Accidental Deaths by Age Group and Ethanol Level (N=2,484), 2019

Note: Of the 3,719 accidental deaths, 33.2% (n=1,235) did not receive toxicology testing

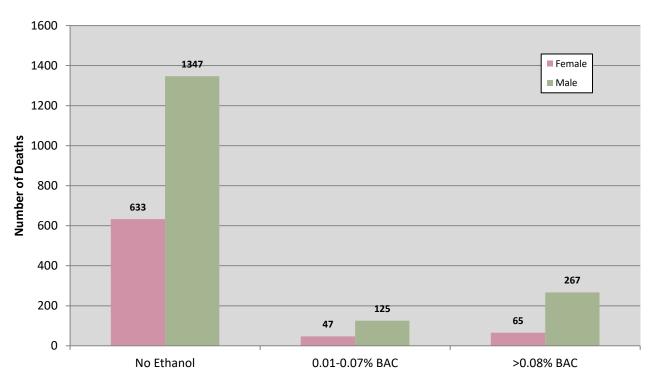


Figure 2.6 Number of Accidental Deaths by Ethanol Level and Gender (N=2,484), 2019

Note: Of the 3,719 accidental deaths, 33.2% (n=1,235) did not receive toxicology testing

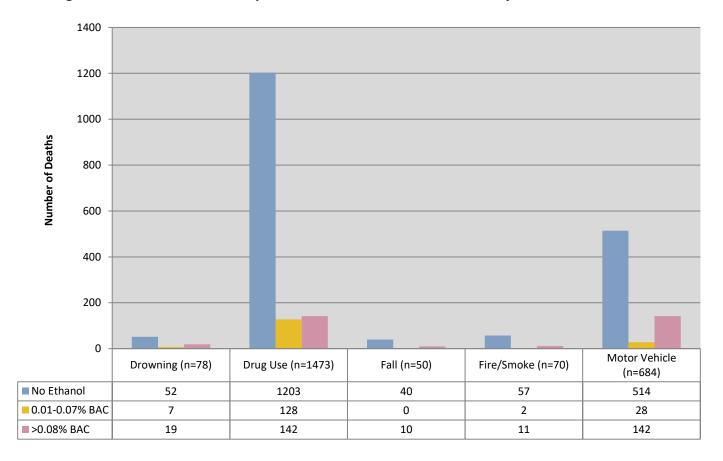


Figure 2.7 Number of the Top 5 Accidental Methods of Death by Ethanol Level, 2019

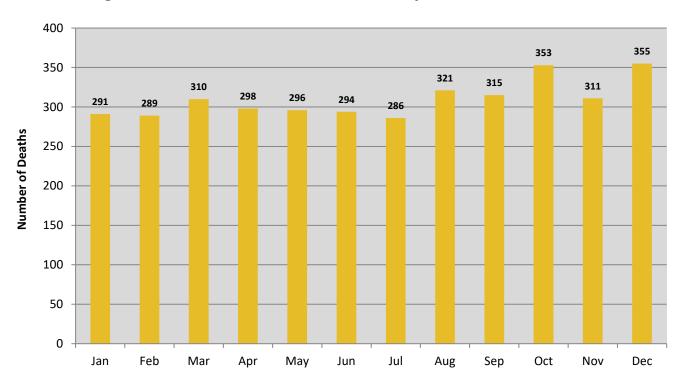


Figure 2.8 Number of Accidental Deaths by Month of Death, 2019

Figure 2.9 Number of Accidental Deaths by Day of Death, 2019

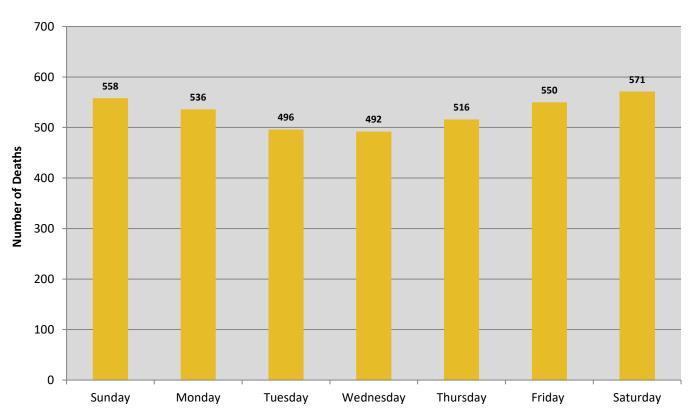


Table 2.3 Number of Accidental Deaths by Locality of Injury and Year of Death, 2006-2019

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
Accomack County	22	20	11	19	18	16	15	12	15	10	16	13	17	11	215
Albemarle County	17	20	33	25	28	34	28	32	44	40	35	51	41	56	484
Alexandria City	21	21	21	22	14	22	16	21	21	31	25	34	16	35	320
Alleghany County	10	14	8	5	6	4	7	8	10	7	13	8	6	6	112
Amelia County	4	7	11	9	4	8	9	5	7	6	9	10	9	9	107
Amherst County	11	8	16	9	5	18	19	12	12	9	17	12	17	18	183
Appomattox County	2	6	7	4	3	5	4	4	8	4	8	3	7	9	74
Arlington County	18	19	30	34	27	24	34	32	31	34	30	35	35	25	408
Augusta County	26	34	38	33	31	27	33	32	29	23	36	37	36	43	458
Bath County	2	3	1	4	3	3	6	2	1	1	3	2	3	5	39
Bedford City	3	5	5	4	4	2	0	2	*	*	*	*	*	*	25
Bedford County	22	27	16	30	31	24	40	32	24	31	38	45	42	40	442
Bland County	0	6	2	7	4	7	2	2	3	3	2	4	1	1	44
Botetourt County	12	12	13	11	11	19	15	12	14	20	15	20	18	14	206
Bristol City	6	10	3	3	7	5	7	1	6	2	1	3	5	4	63
Brunswick County	16	7	6	8	13	8	14	15	11	12	11	9	13	19	162
Buchanan County	21	18	19	11	23	18	20	13	15	15	9	18	17	13	230
Buckingham County	3	9	6	3	5	5	7	5	15	3	12	12	8	12	105
Buena Vista City	0	0	1	2	0	1	2	0	1	2	0	3	1	2	15
Campbell County	32	16	31	12	17	14	25	21	20	23	24	27	27	25	314
Caroline County	9	14	8	9	13	14	10	17	7	19	29	13	29	21	212
Carroll County	17	15	19	11	7	13	14	15	19	14	10	13	8	10	185
Charles City County	4	8	7	7	7	6	5	3	5	4	8	1	3	8	76
Charlotte County	4	6	6	5	6	9	5	6	4	7	9	4	7	9	87
Charlottesville City	21	28	11	16	12	9	8	11	13	18	19	12	27	23	228
Chesapeake City	55	60	48	53	43	58	57	67	59	86	101	81	79	80	927
Chesterfield County	56	68	92	68	70	74	82	78	89	96	124	141	144	143	1325
Clarke County	5	6	5	8	10	4	8	5	8	6	17	9	15	13	119
Colonial Heights City	6	3	4	2	2	3	3	5	6	3	15	5	9	8	74
Covington City	4	0	2	2	0	1	0	1	3	1	3	4	3	1	25
Craig County	7	2	2	4	2	2	1	4	3	2	3	2	3	2	39

Virginia Department of Health

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
Culpeper County	16	24	12	12	14	15	20	23	27	19	24	34	30	26	296
Cumberland County	1	2	4	3	2	3	4	9	2	6	3	6	4	4	53
Danville City	16	13	22	20	20	19	16	20	20	17	22	18	18	26	267
Dickenson County	11	16	13	5	11	13	10	8	10	11	14	6	8	10	146
Dinwiddie County	12	14	20	12	10	8	9	15	6	12	18	18	12	25	191
Emporia City	2	8	2	1	3	3	3	4	1	2	3	1	4	5	42
Essex County	4	7	4	7	5	8	3	2	5	5	7	8	4	5	74
Fairfax City	3	4	5	11	5	7	11	11	11	6	10	9	12	9	114
Fairfax County	221	156	144	148	152	195	184	197	210	243	253	226	246	250	2825
Falls Church City	2	1	0	2	1	6	0	2	4	0	1	2	1	2	24
Fauquier County	21	31	26	33	32	33	27	30	28	50	53	30	54	32	480
Floyd County	13	10	5	8	5	10	5	10	8	10	8	7	12	12	123
Fluvanna County	9	7	14	7	6	5	7	5	6	13	3	9	13	7	111
Franklin City	2	2	1	1	2	0	1	2	3	4	3	6	3	1	31
Franklin County	27	22	23	26	21	33	38	17	23	19	42	37	42	34	404
Frederick County	24	24	26	31	27	29	25	36	36	40	40	47	38	41	464
Fredericksburg City	22	14	15	6	11	12	21	14	8	22	24	29	23	15	236
Galax City	0	3	0	0	0	3	4	2	2	2	1	2	0	4	23
Giles County	9	5	9	9	10	3	10	12	14	10	12	12	7	4	126
Gloucester County	21	10	16	10	20	15	12	16	13	11	24	25	20	12	225
Goochland County	6	15	10	14	8	8	13	5	6	12	5	9	13	12	136
Grayson County	13	5	2	6	5	5	6	7	5	5	8	2	4	8	81
Greene County	4	14	5	4	7	2	9	5	7	5	4	9	8	9	92
Greensville County	10	3	2	5	6	2	5	3	9	5	7	8	3	7	75
Halifax County	15	22	27	14	20	16	9	9	23	15	20	12	19	16	237
Hampton City	31	27	28	25	35	38	24	38	29	35	58	50	65	89	572
Hanover County	21	27	26	13	18	30	26	36	42	32	30	46	48	53	448
Harrisonburg City	11	1	3	5	4	8	6	10	10	9	13	13	14	17	124
Henrico County	89	65	77	73	70	58	72	95	88	109	121	136	131	157	1341
Henry County	34	15	34	22	26	31	31	23	28	24	30	32	31	40	401
Highland County	1	2	2	2	2	1	0	1	2	2	1	0	5	2	23

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
Hopewell City	5	7	6	7	7	6	6	3	7	7	13	14	16	13	117
Isle of Wight County	16	16	14	12	13	7	11	11	15	11	15	16	13	16	186
James City County	17	9	24	16	13	19	11	27	16	27	26	29	34	24	292
King and Queen County	5	7	5	8	2	1	3	4	4	4	3	6	6	6	64
King George County	5	7	8	10	2	8	10	13	16	8	13	23	14	8	145
King William County	3	6	5	9	2	6	6	8	5	7	12	7	8	2	86
Lancaster County	9	9	6	2	2	8	2	6	2	5	11	7	12	7	88
Lee County	11	16	10	13	8	15	11	11	7	6	10	7	13	9	147
Lexington City	3	2	1	2	4	1	2	2	1	2	1	7	1	5	34
Loudoun County	23	36	27	29	32	36	52	55	64	50	69	90	63	61	687
Louisa County	16	24	17	21	14	11	13	17	7	11	28	13	23	24	239
Lunenburg County	6	11	9	5	2	1	6	7	5	5	4	8	5	10	84
Lynchburg City	13	24	24	16	25	21	34	25	26	28	26	28	41	59	390
Madison County	3	9	6	3	5	4	6	5	5	7	3	12	9	8	85
Manassas	8	8	5	11	4	6	15	3	9	12	7	22	11	14	135
Manassas Park	Unknown	1	1	2	3	4	1	1	5	1	1	6	3	2	31
Martinsville City	8	3	8	6	7	7	6	10	8	8	4	9	16	12	112
Mathews County	8	4	1	4	2	2	3	6	3	6	4	3	1	5	52
Mecklenburg County	18	17	11	16	10	13	13	15	16	15	18	26	25	20	233
Middlesex County	3	7	6	6	6	1	4	4	6	7	8	8	7	10	83
Montgomery County	15	24	27	24	30	28	23	26	23	21	28	37	32	34	372
Nelson County	6	11	6	11	6	9	9	9	11	9	8	12	14	10	131
New Kent County	15	7	7	8	12	11	9	6	11	15	9	6	9	14	139
Newport News City	52	35	36	53	40	45	33	43	54	64	75	68	91	89	778
Norfolk City	59	79	59	67	49	73	71	89	68	86	126	119	115	125	1185
Northampton County	6	7	10	9	5	3	2	5	12	4	15	8	9	6	101
Northumberland County	2	3	8	4	6	9	8	7	7	6	3	5	8	8	84
Norton City	3	0	1	1	2	0	1	2	0	1	1	0	1	1	14
Nottoway County	6	7	3	14	6	7	5	7	8	9	9	6	4	20	111
Orange County	6	14	13	10	14	16	9	19	25	16	27	27	20	29	245
Page County	4	10	4	7	8	14	12	10	7	6	13	8	18	16	137

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
Patrick County	5	7	11	8	8	5	9	12	9	10	6	8	14	8	120
Petersburg City	16	22	14	14	13	3	11	10	12	8	25	25	21	24	218
Pittsylvania County	28	30	37	29	25	27	34	22	30	33	21	35	45	39	435
Poquoson City	5	1	1	3	1	2	0	2	1	4	3	5	1	4	33
Portsmouth City	29	20	18	29	23	28	19	33	30	45	52	59	70	57	512
Powhatan County	14	6	7	5	3	7	12	12	9	7	3	15	8	11	119
Prince Edward County	9	14	5	14	11	4	9	10	5	13	14	11	7	15	141
Prince George County	9	12	12	10	12	11	11	13	13	16	7	22	12	19	179
Prince William County	69	56	65	63	72	78	92	79	88	65	108	117	102	99	1153
Pulaski County	16	23	19	15	19	19	14	18	25	18	21	21	23	30	281
Radford City	2	5	9	3	8	3	8	2	6	4	4	7	1	8	70
Rappahannock County	0	4	2	3	6	4	5	4	2	1	1	6	0	7	45
Richmond City	127	134	85	69	67	88	77	79	89	105	146	167	144	172	1549
Richmond County	2	2	6	2	4	4	5	3	5	2	6	8	2	10	61
Roanoke City	37	30	32	41	36	39	40	57	49	54	48	88	85	75	711
Roanoke County	27	22	23	19	17	26	27	28	36	41	44	54	55	49	468
Rockbridge County	12	14	10	13	7	10	14	7	13	16	13	12	16	20	177
Rockingham County	30	21	19	16	18	16	25	22	37	37	25	27	34	40	367
Russell County	19	19	15	11	16	20	14	12	9	14	16	11	4	12	192
Salem City	13	7	8	8	8	4	12	12	12	8	10	13	15	22	152
Scott County	6	8	11	9	5	8	9	10	7	6	9	9	5	9	111
Shenandoah County	14	5	24	13	12	15	17	15	23	32	20	19	16	26	251
Smyth County	13	10	11	7	12	10	9	12	10	14	11	10	11	9	149
Southampton County	10	15	10	10	11	6	8	17	9	11	7	10	14	13	151
Spotsylvania County	29	39	31	29	43	36	34	39	38	53	67	51	71	87	647
Stafford County	18	44	25	24	21	23	33	33	26	48	45	35	46	53	474
Staunton City	7	6	8	7	5	8	3	4	10	7	5	13	7	12	102
Suffolk City	16	37	26	17	30	25	25	30	27	34	25	38	30	31	391
Surry County	2	7	4	1	6	2	1	4	2	3	3	3	0	5	43
Sussex County	13	15	17	11	12	5	2	3	8	6	16	23	9	17	157
Tazewell County	36	11	16	19	25	30	23	14	20	17	14	20	20	31	296

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
Virginia Beach City	101	106	102	110	77	112	111	119	116	126	130	184	149	149	1692
Warren County	6	12	17	9	25	23	15	20	20	20	21	35	20	27	270
Washington County	18	20	22	14	21	28	16	10	21	23	14	17	19	16	259
Waynesboro City	7	2	7	6	7	3	13	8	5	10	7	10	6	13	104
Westmoreland County	13	9	11	6	11	10	7	7	5	13	15	12	9	13	141
Williamsburg City	6	5	3	6	2	9	5	6	6	1	7	9	4	6	75
Winchester City	15	2	4	10	7	7	16	17	19	19	14	18	17	19	184
Wise County	31	28	15	22	22	23	19	23	14	17	19	25	22	18	298
Wythe County	11	14	24	12	13	9	17	14	21	25	18	19	8	13	218
York County	14	17	14	7	15	17	8	16	18	16	18	21	29	22	232
Subtotal (in-state)	2316	2322	2227	2105	2081	2275	2333	2456	2547	2753	3152	3409	3351	3576	36903
Out of State	29	51	46	52	54	54	59	62	62	81	65	77	73	98	863
Unknown	8	24	26	18	14	14	20	18	26	39	23	35	108	45	418
Subtotal (out-of-state)	37	75	72	70	68	68	79	80	88	120	88	112	181	143	1281
TOTAL	2353	2397	2299	2175	2149	2343	2412	2536	2635	2873	3240	3521	3532	3719	38184

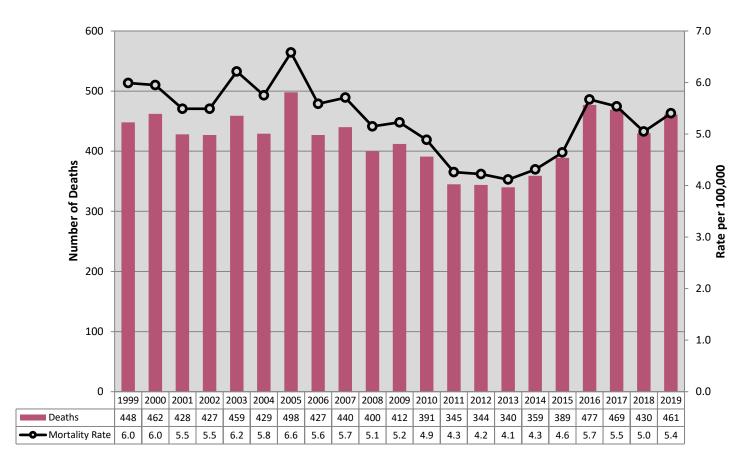
^{*} Bedford City was incorporated into Bedford County in 2014 and therefore numbers are combined from there forward

HOMICIDE DEATHS (N=461)

The number of homicides in 2019 increased 7.2% compared to 2018. As previous years have shown, homicides most frequently occurred among males (78.3%) and among Blacks (60.5%). Males aged 20-24 years demonstrate the highest homicide rate with 19.9 deaths per 100,000 persons.

- Over seventy-six percent of all homicides were committed using a firearm, with handguns (the most common type) used in 75.6% of all firearm-related homicides
- Nearly 58% of all homicides in the Commonwealth were committed using a handgun
- Of the 91.8% of homicide victims tested for ethanol, 27.0% had ethanol present. Furthermore, 15.4% of those tested had a blood alcohol concentration of 0.08% or greater
- Richmond City had both the largest number of homicides by locality of residence and locality of injury (n=37 and n=68, respectively). Petersburg had both the highest homicide rate by locality of residence by location of injury (54.2 and 67.0 per 100,000, respectively)

Figure 2.10 Number and Rate of Homicide Deaths by Year of Death, 1999-2019



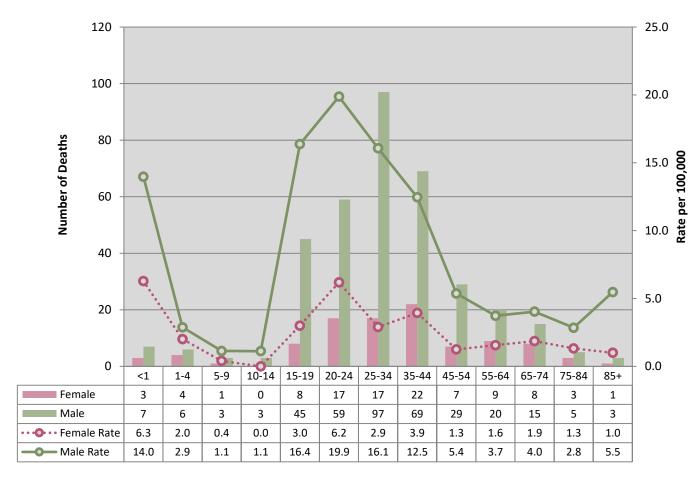
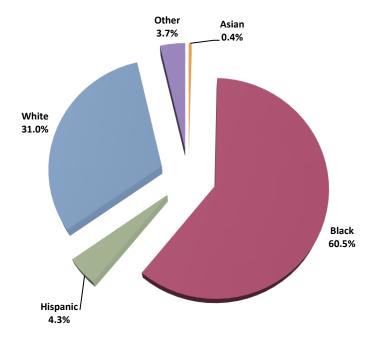


Figure 2.11 Number and Rate of Homicide Deaths by Age Group and Gender, 2019

Figure 2.12 Percentage of Homicide Deaths by Race/Ethnicity, 2019



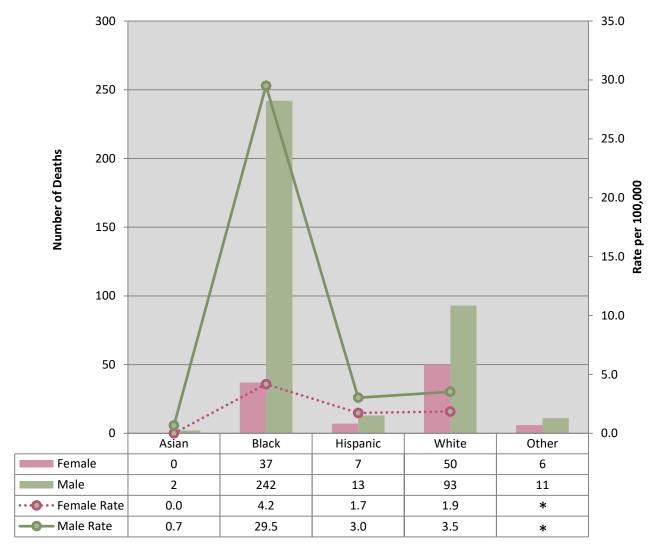


Figure 2.13 Number and Rate of Homicide Deaths by Race/Ethnicity and Gender, 2019

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Asians)

^{*}No rate can be calculated

Table 2.4 Number of Homicide Deaths by Cause and Method of Death, 2019

Method of Death	Autopsied	Total Cases
Asphyxia		
Strangled by assailant(s)	6	7
Other asphyxia	2	2
Drug Poisoning		
Ingested and/or injected ethanol, illicit, prescription, and/or other type of drug	2	2
Fall/Jump		
Fell/Jumped from any height	3	3
Fire		
Thermal and/or inhalational Injuries	2	2
Motor Vehicle Collision		
Struck by a vehicle	2	2
Traumatic Injury		
Beaten by assailant(s)	32	33
Shot by assailant(s)		
Handgun	266	267
Multiple	2	2
Rifle	14	14
Shotgun	9	9
Unspecified/Unknown	61	61
Stabbed by assailant(s)	46	47
Other traumatic injury	3	3
Other/Undetermined		
Other/Undetermined	7	7
TOTAL HOMICIDE DEATHS	457	461

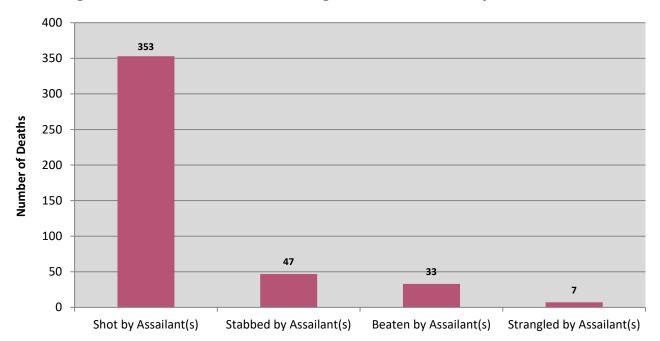
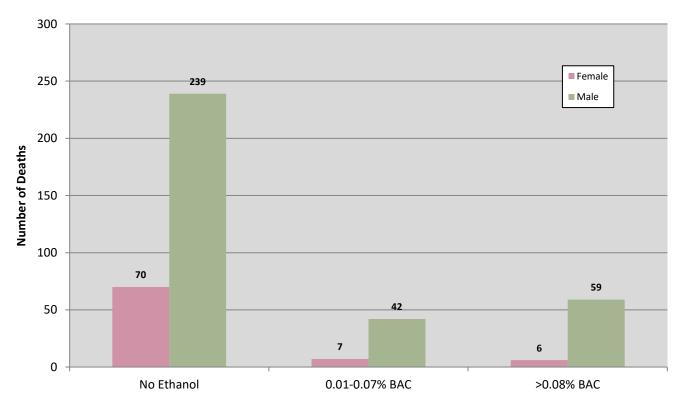


Figure 2.14 Number of the Leading Homicide Deaths by Method, 2019

Figure 2.15 Number of Homicide Deaths by Ethanol Level and Gender (N=423), 2019



Note: Of the 461 homicide deaths, 8.2% (n=38) did not receive toxicology testing

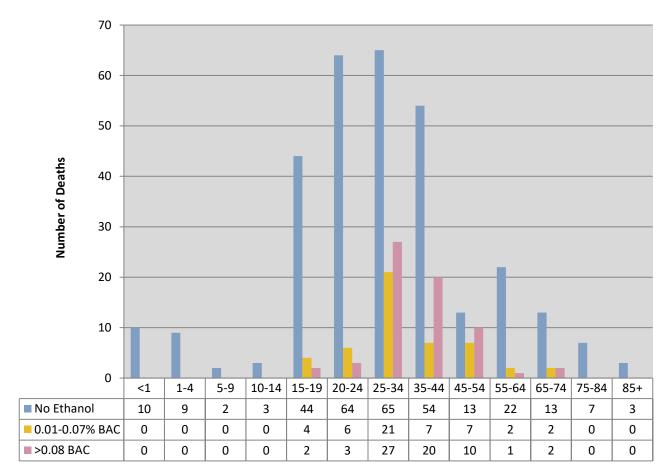


Figure 2.16 Number of Homicide Deaths by Age Group and Ethanol Level (N=423), 2019

Note: Of the 461 homicide deaths, 8.2% (n=38) did not receive toxicology testing

Table 2.5 Number of Homicide Deaths by Method of Death and Ethanol Level (N=423), 2019

Method of Death	No Ethanol	0.01-0.07% BAC	>0.08% BAC
Asphyxia			
Strangled by assailant(s)	5	0	1
Other asphyxia	2	0	0
Drug Poisoning			
Ingested and/or injected ethanol, illicit, prescription, and/or other type of drug	2	0	0
Fall/Jump			
Fell/Jumped from any height	2	0	0
Fire			
Thermal and/or inhalational Injuries	1	0	1
Motor Vehicle Collision			
Struck by a vehicle	1	0	1
Traumatic Injury			
Beaten by assailant(s)	25	1	4
Shot by assailant(s)			
Handgun	181	28	39
Multiple	1	1	0
Rifle	12	0	1
Shotgun	8	0	1
Unspecified/Unknown	37	8	10
Stabbed by assailant(s)	25	11	7
Other traumatic injury	3	0	0
Other/Undetermined			
Other/Undetermined	4	0	0
TOTAL	309	49	65

Note: Of the 461 homicide deaths, 8.2% (n=38) did not receive toxicology testing

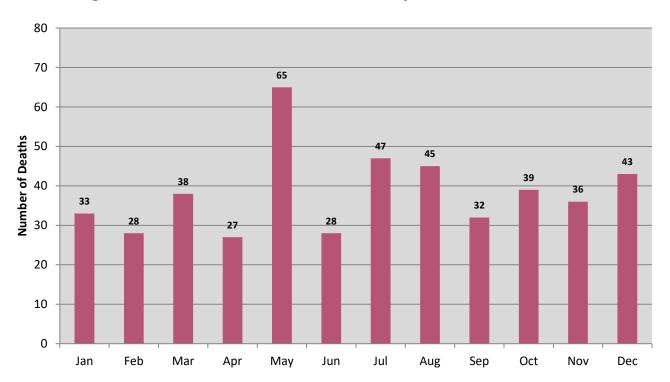


Figure 2.17 Number of Homicide Deaths by Month of Death, 2019

Figure 2.18 Number of Homicide Deaths by Day of Death, 2019

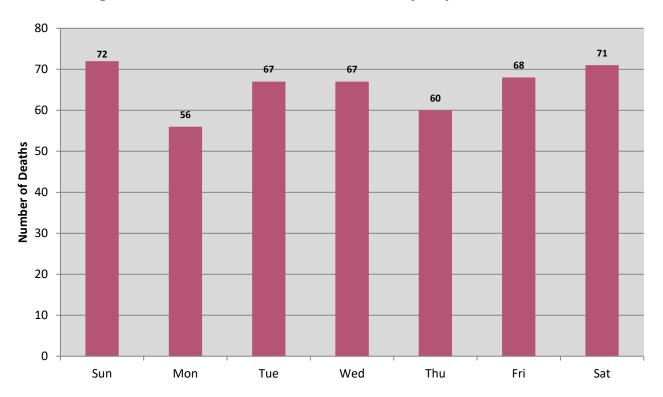


Table 2.6 Number and Rate of Homicide Deaths by Locality of Residence, 2019

Locality of Residence	Deaths	Rate
Accomack County	5	15.5
Albemarle County	2	1.8
Alexandria City	3	1.9
Alleghany County	0	0.0
Amelia County	0	0.0
Amherst County	3	9.5
Appomattox County	1	6.3
Arlington County	1	0.4
Augusta County	1	1.3
Bath County	0	0.0
Bedford County	1	1.3
Bland County	0	0.0
Botetourt County	0	0.0
Bristol City	1	6.0
Brunswick County	0	0.0
Buchanan County	1	4.8
Buckingham County	1	5.8
Buena Vista City	1	15.4
Campbell County	3	5.5
Caroline County	0	0.0
Carroll County	1	3.4
Charles City County	1	14.4
Charlotte County	0	0.0
Charlottesville City	2	4.2
Chesapeake City	14	5.7
Chesterfield County	31	8.8
Clarke County	1	6.8
Colonial Heights City	0	0.0
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	0	0.0
Cumberland County	1	10.1
Danville City	6	15.0
Dickenson County	2	14.0
Dinwiddie County	0	0.0
Emporia City	1	18.7
Essex County	0	0.0
Fairfax City	0	0.0
Fairfax County	15	1.3
Falls Church City	0	0.0
Fauquier County	2	2.8
Floyd County	0	0.0
Fluvanna County	1	3.7

Locality of Residence	Deaths	Rate
Franklin City	2	25.1
Franklin County	3	5.4
Frederick County	2	2.2
Fredericksburg City	3	10.3
Galax City	0	0.0
Giles County	0	0.0
Gloucester County	2	5.4
Goochland County	0	0.0
Grayson County	0	0.0
Greene County	1	5.0
Greensville County	0	0.0
Halifax County	5	14.7
Hampton City	14	10.4
Hanover County	2	1.9
Harrisonburg City	0	0.0
Henrico County	20	6.0
Henry County	4	7.9
Highland County	0	0.0
Hopewell City	2	8.9
Isle of Wight County	1	2.7
James City County	1	1.3
King and Queen County	0	0.0
King George County	0	0.0
King William County	1	5.8
Lancaster County	0	0.0
Lee County	1	4.3
Lexington City	0	0.0
Loudoun County	1	0.2
Louisa County	3	8.0
Lunenburg County	3	24.6
Lynchburg City	2	2.4
Madison County	0	0.0
Manassas	2	4.9
Manassas Park	0	0.0
Martinsville City	1	8.0
Mathews County	0	0.0
Mecklenburg County	3	9.8
Middlesex County	0	0.0
Montgomery County	1	1.0
Nelson County	0	0.0
New Kent County	2	8.7
Newport News City	29	16.2
Norfolk City	29	11.9

Locality of Residence	Deaths	Rate
Northampton County	1	8.5
Northumberland County	1	8.3
Norton City	0	0.0
Nottoway County	0	0.0
Orange County	1	2.7
Page County	1	4.2
Patrick County	0	0.0
Petersburg City	17	54.2
Pittsylvania County	7	11.6
Poquoson City	0	0.0
Portsmouth City	16	16.9
Powhatan County	2	6.7
Prince Edward County	1	4.4
Prince George County	1	2.6
Prince William County	12	2.6
Pulaski County	2	5.9
Radford City	0	0.0
Rappahannock County	0	0.0
Richmond City	37	16.1
Richmond County	0	0.0
Roanoke City	9	9.1
Roanoke County	4	4.2
Rockbridge County	0	0.0
Rockingham County	2	2.4
Russell County	0	0.0
Salem City	0	0.0
Scott County	0	0.0

Locality of Residence	Deaths	Rate
Shenandoah County	3	6.9
Smyth County	2	6.6
Southampton County	2	11.3
Spotsylvania County	6	4.4
Stafford County	4	2.6
Staunton City	0	0.0
Suffolk City	7	7.6
Surry County	0	0.0
Sussex County	2	17.9
Tazewell County	0	0.0
Virginia Beach City	34	7.6
Warren County	1	2.5
Washington County	0	0.0
Waynesboro City	1	4.4
Westmoreland County	0	0.0
Williamsburg City	0	0.0
Winchester City	1	3.6
Wise County	1	2.7
Wythe County	2	7.0
York County	1	1.5
Subtotal (in-state)	423	5.0
Out of State	32	ND
Unknown	6	ND
Subtotal (out-of-state)	38	ND
TOTAL	461	5.4

Note: No denominator is represented by ND.

Table 2.7 Top 10 Localities with the Largest Number of Residential Homicides, 2019

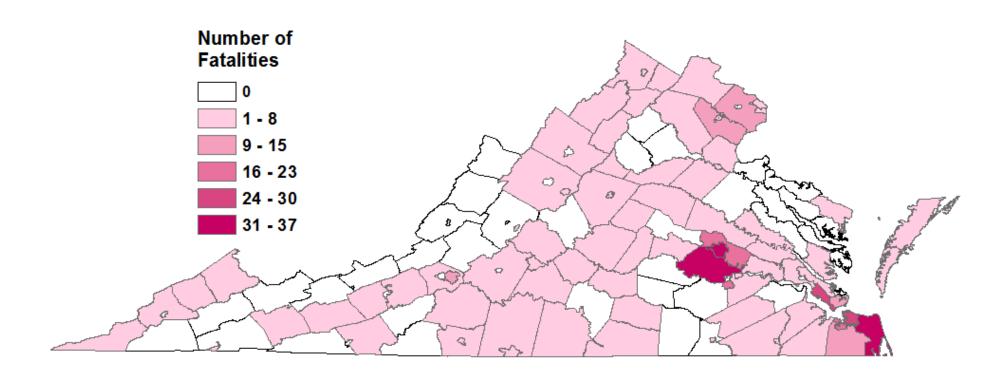
Rank #	Locality of Residence	Homicide #
1	Richmond City	37
2	Virginia Beach City	34
3	Out of State	32
4	Chesterfield County	31
5	Newport News City	29
	Norfolk City	29
7	Henrico County	20
8	Petersburg City	17
9	Portsmouth City	16
10	Fairfax County	15

Table 2.8 Top 10 Localities with the Highest Rate of Residential Homicides, 2019

Rank #	Locality of Residence	Homicide Rate
1	Petersburg City	54.2
2	Franklin City	25.1*
3	Lunenburg County	24.6*
4	Emporia City	18.7*
5	Sussex County	17.9*
6	Portsmouth City	16.9
7	Newport News City	16.2
8	Richmond City	16.1
9	Accomack County	15.5
10	Buena Vista City	15.4*

^{*}Unstable rate based on small sample size (<5 deaths)

Map 2.1 Number of Homicides by Locality of Residence, 2019



Map 2.2 Homicide Rates by Locality of Residence, 2019

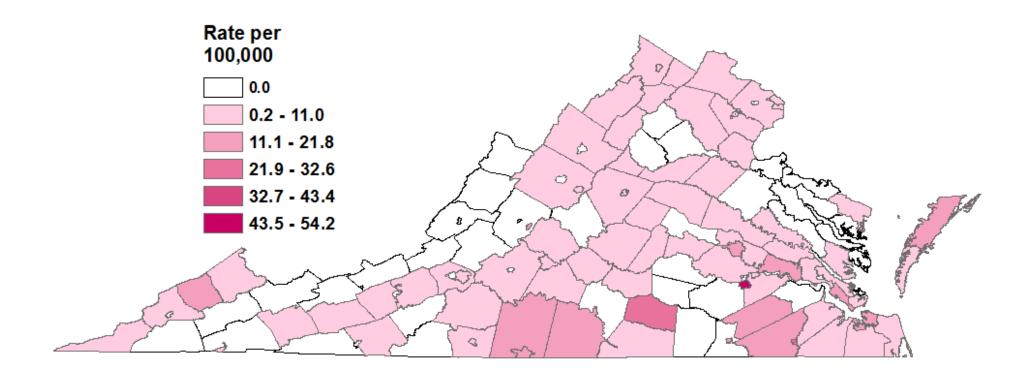


Table 2.9 Number and Rate of Homicide Deaths by Locality of Injury, 2019

Locality of Injury	Deaths	Rate
Accomack County	5	15.5
Albemarle County	2	1.8
Alexandria City	2	1.3
Alleghany County	0	0.0
Amelia County	0	0.0
Amherst County	3	9.5
Appomattox County	0	0.0
Arlington County	3	1.3
Augusta County	0	0.0
Bath County	0	0.0
Bedford County	1	1.3
Bland County	0	0.0
Botetourt County	0	0.0
Bristol City	1	6.0
Brunswick County	0	0.0
Buchanan County	1	4.8
Buckingham County	0	0.0
Buena Vista City	0	0.0
Campbell County	3	5.5
Caroline County	0	0.0
Carroll County	1	3.4
Charles City County	1	14.4
Charlotte County	0	0.0
Charlottesville City	2	4.2
Chesapeake City	9	3.7
Chesterfield County	13	3.7
Clarke County	1	6.8
Colonial Heights City	0	0.0
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	1	1.9
Cumberland County	3	30.2
Danville City	8	20.0
Dickenson County	2	14.0
Dinwiddie County	0	0.0
Emporia City	1	18.7
Essex County	0	0.0
Fairfax City	0	0.0
Fairfax County	13	1.1
Falls Church City	0	0.0
Fauquier County	1	1.4
Floyd County	1	6.3

Locality of Injury	Deaths	Rate
Fluvanna County	1	3.7
Franklin City	2	25.1
Franklin County	3	5.4
Frederick County	2	2.2
Fredericksburg City	3	10.3
Galax City	0	0.0
Giles County	0	0.0
Gloucester County	1	2.7
Goochland County	0	0.0
Grayson County	2	12.9
Greene County	1	5.0
Greensville County	0	0.0
Halifax County	4	11.8
Hampton City	14	10.4
Hanover County	0	0.0
Harrisonburg City	0	0.0
Henrico County	9	2.7
Henry County	2	4.0
Highland County	0	0.0
Hopewell City	5	22.2
Isle of Wight County	1	2.7
James City County	2	2.6
King and Queen County	0	0.0
King George County	0	0.0
King William County	1	5.8
Lancaster County	1	9.4
Lee County	2	8.5
Lexington City	0	0.0
Loudoun County	0	0.0
Louisa County	4	10.6
Lunenburg County	3	24.6
Lynchburg City	2	2.4
Madison County	0	0.0
Manassas	3	7.3
Manassas Park	0	0.0
Martinsville City	2	15.9
Mathews County	0	0.0
Mecklenburg County	3	9.8
Middlesex County	1	9.5
Montgomery County	1	1.0
Nelson County	1	6.7
New Kent County	1	4.3

Locality of Injury	Deaths	Rate
Newport News City	26	14.5
Norfolk City	38	15.7
Northampton County	0	0.0
Northumberland County	1	8.3
Norton City	0	0.0
Nottoway County	1	6.6
Orange County	0	0.0
Page County	1	4.2
Patrick County	0	0.0
Petersburg City	21	67.0
Pittsylvania County	8	13.3
Poquoson City	0	0.0
Portsmouth City	18	19.1
Powhatan County	0	0.0
Prince Edward County	1	4.4
Prince George County	0	0.0
Prince William County	14	3.0
Pulaski County	1	2.9
Radford City	1	5.5
Rappahannock County	0	0.0
Richmond City	68	29.5
Richmond County	0	0.0
Roanoke City	15	15.1
Roanoke County	1	1.1
Rockbridge County	1	4.4
Rockingham County	2	2.4
Russell County	0	0.0
Salem City	0	0.0
Scott County	1	4.6

Locality of Injury	Deaths	Rate
Shenandoah County	3	6.9
Smyth County	0	0.0
Southampton County	1	5.7
Spotsylvania County	6	4.4
Stafford County	4	2.6
Staunton City	0	0.0
Suffolk City	6	6.5
Surry County	0	0.0
Sussex County	2	17.9
Tazewell County	0	0.0
Virginia Beach City	36	8.0
Warren County	1	2.5
Washington County	2	3.7
Waynesboro City	2	8.8
Westmoreland County	0	0.0
Williamsburg City	0	0.0
Winchester City	1	3.6
Wise County	1	2.7
Wythe County	4	13.9
York County	1	1.5
Subtotal (in-state)	444	5.2
Out of State	7	ND
Unknown	10	ND
Subtotal (out-of-state)	17	ND
TOTAL	461	5.4

Note: No denominator is represented by ND.

Table 2.10 Top 10 Localities with the Largest Number of Homicides by Locality of Injury, 2019

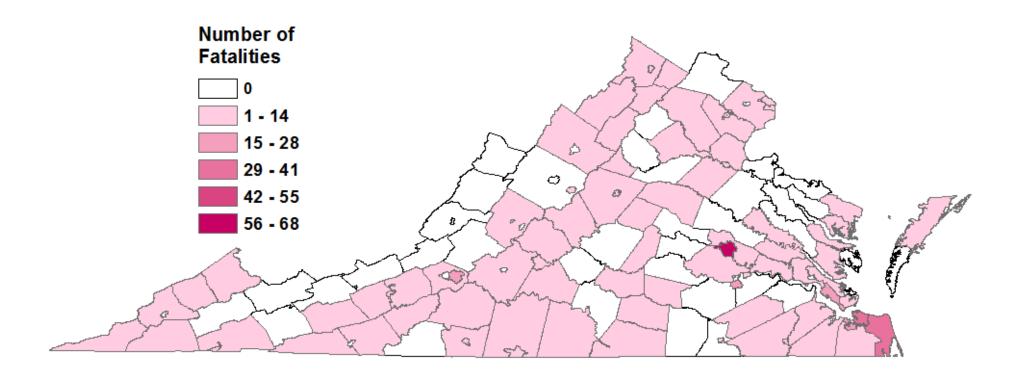
Rank#	Locality of Injury	Homicide #
1	Richmond City	68
2	Norfolk City	38
3	Virginia Beach City	36
4	Newport News City	26
5	Petersburg City	21
6	Portsmouth City	18
7	Roanoke City	15
8	Hampton City	14
	Prince William County	14
10	Chesterfield County	13
	Fairfax County	13

Table 2.11 Top 10 Localities with the Highest Rate of Homicide by Locality of Injury, 2019

Rank #	Locality of Injury	Homicide Rate
1	Petersburg City	67.0
2	Cumberland County	30.2*
3	Richmond City	29.5
4	Franklin City	25.1*
5	Lunenburg County	24.6*
6	Hopewell City	22.2
7	Danville City	20.0
8	Portsmouth City	19.1
9	Emporia City	18.7*
10	Sussex County	17.9*

^{*}Unstable rate based on small sample size (<5 deaths)

Map 2.3 Number of Homicides by Locality of Injury, 2019



Map 2.4 Homicide Rates by Locality of Injury, 2019

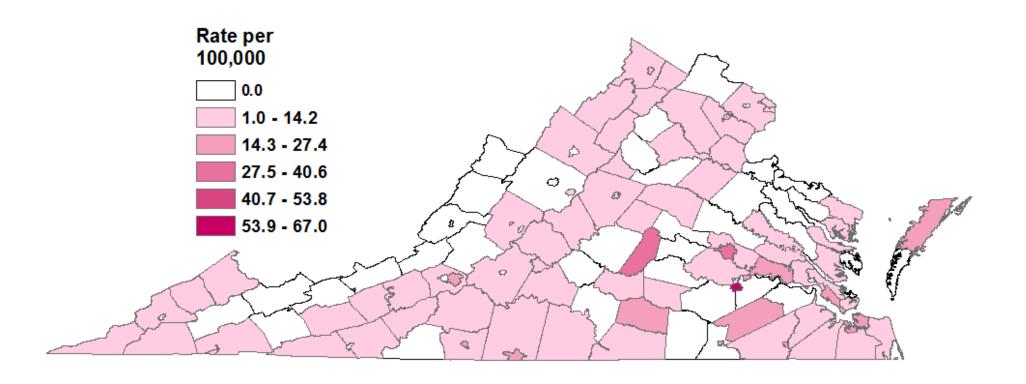


Table 2.12 Number of Homicide Deaths by Locality of Death and Year of Death, 2006-2019

Locality of Death	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
Accomack County	5	4	2	2	2	4	1	3	4	3	4	1	1	6	42
Albemarle County	1	0	1	0	3	0	3	2	2	1	0	4	1	1	19
Alexandria City	4	7	4	4	2	0	2	6	4	3	5	3	3	1	48
Alleghany County	0	3	1	0	2	2	1	2	0	0	0	0	0	0	11
Amelia County	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3
Amherst County	0	1	1	1	0	1	0	1	2	0	1	0	0	3	11
Appomattox County	0	1	1	0	7	1	0	0	1	3	0	0	0	0	14
Arlington County	3	3	4	2	0	0	5	0	1	2	0	3	3	3	29
Augusta County	3	1	1	1	3	3	2	0	4	1	4	1	2	0	26
Bath County	0	0	0	2	0	0	0	0	0	0	0	1	0	0	3
Bedford City	0	0	0	0	0	0	0	0	*	*	*	*	*	*	0
Bedford County	1	2	0	0	2	0	0	0	4	3	1	1	3	1	18
Bland County	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
Botetourt County	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Bristol City	4	0	0	0	1	1	1	0	0	0	0	0	2	0	9
Brunswick County	3	1	2	0	0	0	1	0	0	0	0	0	0	0	7
Buchanan County	1	0	2	6	3	6	1	0	1	1	4	1	0	1	27
Buckingham County	1	1	0	0	0	1	0	0	2	0	1	1	0	0	7
Buena Vista City	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Campbell County	2	2	2	5	2	1	3	3	0	0	6	2	3	1	32
Caroline County	5	4	0	0	0	0	0	0	0	1	1	1	0	0	12
Carroll County	1	4	1	1	1	0	0	3	1	0	0	0	0	3	15
Charles City County	0	0	1	0	1	0	0	0	0	0	0	0	0	1	3
Charlotte County	0	0	1	1	0	1	1	1	0	2	2	0	1	0	10
Charlottesville City	5	6	12	3	5	3	4	6	8	4	4	10	5	5	80
Chesapeake City	7	7	7	10	9	10	9	8	8	11	11	6	6	7	116
Chesterfield County	5	6	9	3	6	11	9	9	9	8	6	11	2	10	104
Clarke County	0	0	1	1	0	0	0	0	0	0	1	1	0	1	5
Colonial Heights City	0	0	0	0	0	2	0	0	1	1	0	1	0	0	5
Covington City	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
Craig County	0	0	1	0	0	0	0	0	0	0	0	0	1	0	2

Virginia Department of Health

Locality of Death	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
Culpeper County	1	1	0	0	0	3	1	2	6	1	4	2	1	0	22
Cumberland County	0	1	0	2	0	0	1	0	0	0	0	0	0	2	6
Danville City	5	5	8	10	7	7	5	5	3	6	15	14	13	6	109
Dickenson County	0	1	1	1	2	2	0	1	1	0	0	1	0	2	12
Dinwiddie County	5	1	1	0	2	0	3	4	0	2	2	0	1	0	21
Emporia City	1	2	2	1	2	1	1	0	1	2	0	2	1	1	17
Essex County	0	0	0	0	1	1	0	1	1	1	0	0	0	0	5
Fairfax City	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
Fairfax County	29	20	28	24	19	16	19	10	16	17	27	29	20	23	297
Falls Church City	0	0	0	1	0	0	1	1	0	0	0	0	0	0	3
Fauquier County	2	4	1	2	1	1	3	2	1	1	1	2	4	2	27
Floyd County	0	0	2	1	0	1	0	0	0	0	0	0	0	1	5
Fluvanna County	0	0	1	0	0	0	0	0	0	1	0	0	1	1	4
Franklin City	0	0	0	2	1	0	0	0	1	0	0	1	1	2	8
Franklin County	2	1	0	4	4	2	0	4	2	9	0	4	1	4	37
Frederick County	7	0	1	2	1	1	2	2	2	2	0	0	1	1	22
Fredericksburg City	0	2	3	4	3	3	3	4	1	7	4	4	4	5	47
Galax City	1	2	0	1	0	0	0	0	0	0	2	1	0	0	7
Giles County	1	0	0	0	0	0	0	0	1	0	0	0	1	0	3
Gloucester County	0	1	1	0	1	2	3	0	0	0	1	2	1	3	15
Goochland County	1	0	2	0	1	0	0	1	1	1	0	0	0	0	7
Grayson County	0	0	7	0	0	0	0	1	0	1	0	1	0	3	13
Greene County	0	1	0	0	0	3	0	0	0	0	0	0	0	1	5
Greensville County	5	0	5	4	3	2	0	2	0	1	0	3	0	0	25
Halifax County	1	3	5	0	2	2	0	0	0	1	3	2	4	4	27
Hampton City	14	6	4	7	9	3	7	20	7	11	12	13	11	15	139
Hanover County	2	0	1	0	2	2	5	0	1	3	2	2	3	0	23
Harrisonburg City	4	0	0	0	1	2	1	1	0	1	2	0	1	0	13
Henrico County	10	6	15	7	9	9	9	6	6	9	14	18	7	7	132
Henry County	7	3	3	5	6	4	5	1	3	2	2	0	3	1	45
Highland County	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1

Locality of Death	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
Hopewell City	4	2	4	2	2	1	2	2	5	3	5	2	6	4	44
Isle of Wight County	1	0	0	1	0	1	2	1	1	1	0	2	0	1	11
James City County	1	0	1	0	0	1	1	2	0	2	2	1	0	1	12
King and Queen County	0	0	0	0	0	0	1	0	0	0	1	0	1	0	3
King George County	0	0	0	1	0	0	0	0	1	1	0	0	1	0	4
King William County	0	1	0	0	0	0	0	0	0	0	1	0	0	0	2
Lancaster County	2	0	1	0	2	1	1	0	0	0	0	0	0	0	7
Lee County	0	1	2	1	4	4	0	2	0	0	0	0	1	2	17
Lexington City	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Loudoun County	4	1	3	4	1	2	2	5	4	2	4	4	4	0	40
Louisa County	0	4	1	1	3	0	1	0	1	0	3	2	0	3	19
Lunenburg County	1	1	2	1	0	0	0	1	0	0	1	1	0	2	10
Lynchburg City	2	1	5	0	4	5	3	1	8	4	3	5	7	4	52
Madison County	0	0	1	0	1	3	1	1	0	1	0	1	0	0	9
Manassas	1	2	5	2	0	3	1	1	2	0	1	2	2	2	24
Manassas Park	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Martinsville City	0	2	3	0	4	3	1	2	2	3	1	3	1	3	28
Mathews County	0	0	0	1	0	0	0	0	0	0	1	1	0	0	3
Mecklenburg County	0	1	4	3	2	1	0	2	1	1	3	1	2	2	23
Middlesex County	1	0	0	0	0	1	0	1	2	0	0	1	1	0	7
Montgomery County	3	31	2	8	2	1	0	2	2	2	0	2	1	0	56
Nelson County	0	1	0	1	1	1	0	1	0	0	0	1	1	1	8
New Kent County	0	0	1	1	0	0	0	0	0	0	0	0	0	1	3
Newport News City	20	31	23	31	30	21	29	18	26	31	43	32	34	27	396
Norfolk City	34	75	41	63	47	40	56	38	48	48	64	50	51	48	703
Northampton County	2	3	0	0	2	1	1	4	0	3	3	0	0	0	19
Northumberland County	0	1	0	0	0	0	1	0	0	0	0	0	0	1	3
Norton City	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Nottoway County	0	1	0	0	0	0	2	0	1	0	2	0	1	1	8
Orange County	2	0	1	0	1	0	1	0	2	0	0	0	2	0	9
Page County	1	0	0	0	1	0	1	0	3	0	0	0	0	0	6

Locality of Death	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
Patrick County	0	1	0	0	0	0	0	0	1	2	0	0	3	0	7
Petersburg City	10	8	4	11	11	8	5	6	12	18	9	10	14	19	145
Pittsylvania County	2	3	3	2	4	4	1	0	2	0	3	1	3	10	38
Poquoson City	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Portsmouth City	18	11	14	16	13	13	8	7	7	23	9	13	17	16	185
Powhatan County	0	0	3	1	1	3	0	0	0	1	1	1	0	0	11
Prince Edward County	0	1	1	7	1	1	1	3	0	0	0	4	0	2	21
Prince George County	0	0	0	1	2	0	0	1	1	0	0	2	1	0	8
Prince William County	12	11	10	9	9	7	1	5	4	9	15	5	8	12	117
Pulaski County	1	0	2	1	2	0	1	1	4	0	2	2	0	1	17
Radford City	1	0	0	0	1	0	1	0	0	0	0	0	0	1	4
Rappahannock County	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2
Richmond City	85	76	47	58	56	50	55	56	55	55	82	96	72	80	923
Richmond County	0	0	1	0	0	0	0	0	0	0	0	0	1	0	2
Roanoke City	13	12	23	14	14	15	12	18	7	17	19	28	21	19	232
Roanoke County	1	2	0	1	4	0	1	0	1	0	2	0	6	1	19
Rockbridge County	0	1	0	0	1	1	0	0	0	1	0	3	1	1	9
Rockingham County	1	1	1	2	0	1	0	0	4	0	0	2	2	2	16
Russell County	2	0	1	1	0	2	0	2	3	0	0	1	0	0	12
Salem City	0	1	1	0	1	0	1	0	0	1	1	0	0	0	6
Scott County	0	2	1	0	1	1	1	0	0	0	2	0	2	1	11
Shenandoah County	0	0	0	1	0	0	1	1	3	0	1	0	2	3	12
Smyth County	0	0	1	0	0	2	1	0	0	0	2	2	1	0	9
Southampton County	1	3	0	2	1	0	0	0	0	0	3	0	1	1	12
Spotsylvania County	4	4	0	3	5	2	1	3	1	1	2	2	1	4	33
Stafford County	1	2	3	4	1	2	1	3	1	4	5	2	3	4	36
Staunton City	0	0	1	2	0	0	0	1	1	1	0	0	0	0	6
Suffolk City	8	2	5	5	3	3	2	6	2	2	5	1	2	7	53
Surry County	0	0	1	0	2	0	0	0	0	0	0	0	0	0	3
Sussex County	1	0	1	0	0	0	1	2	0	0	0	2	4	1	12
Tazewell County	0	3	2	5	3	0	2	0	1	1	1	1	0	0	19

Locality of Death	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
Virginia Beach City	20	16	18	16	13	14	14	17	17	18	19	13	20	30	245
Warren County	2	0	0	1	0	0	0	0	1	1	0	3	0	1	9
Washington County	0	0	2	1	2	2	1	2	4	0	0	6	3	2	25
Waynesboro City	0	1	0	0	1	0	0	0	0	0	1	0	1	2	6
Westmoreland County	2	1	1	0	0	0	1	0	0	2	0	1	0	0	8
Williamsburg City	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Winchester City	2	2	2	0	0	2	1	1	1	2	0	1	1	2	17
Wise County	0	2	0	2	0	0	4	0	2	2	2	1	4	0	19
Wythe County	1	0	2	0	0	1	0	0	0	0	0	2	2	3	11
York County	3	1	1	0	0	3	0	4	4	1	2	1	3	1	24
Subtotal (in-state)	422	439	398	408	388	341	337	339	354	387	470	468	427	458	5636
Out of State	1	1	2	4	3	4	7	1	4	2	7	1	3	3	43
Unknown	4	0	0	0	0	0	0	0	1	0	0	0	0	0	5
Subtotal (out-of-state)	5	1	2	4	3	4	7	1	5	2	7	1	3	3	48
TOTAL	427	440	400	412	391	345	344	340	359	389	477	469	430	461	5684

Note: Bedford City was incorporated into Bedford County in 2014 and therefore numbers are combined from there forward

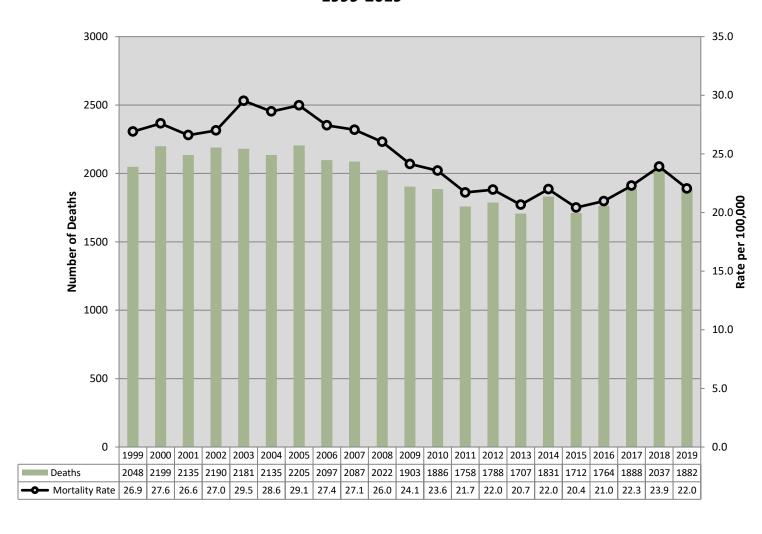
NATURAL DEATHS (N=1,882)

Most natural deaths that occur in Virginia do not fall under the jurisdiction of the OCME. Natural deaths enter the medical examiner system as deaths that are sudden, unexpected, or suspicious, which upon examination and investigation are then established as natural. Natural deaths may also fall under the OCME's jurisdiction when the decedent does not have a primary care physician to certify their deaths, the decedent dies while incustody, or the decedent is a patient of a state mental health facility.

- Natural deaths accounted for 25.5% of all deaths investigated by the OCME in 2019
- The number of natural deaths accepted by OCME decreased in 2019 compared with 2018 (a decrease of 155 deaths or 7.6%).

Figure 2.19 Number and Rate of Natural Deaths Investigated by the OCME by Year of Death,

1999-2019





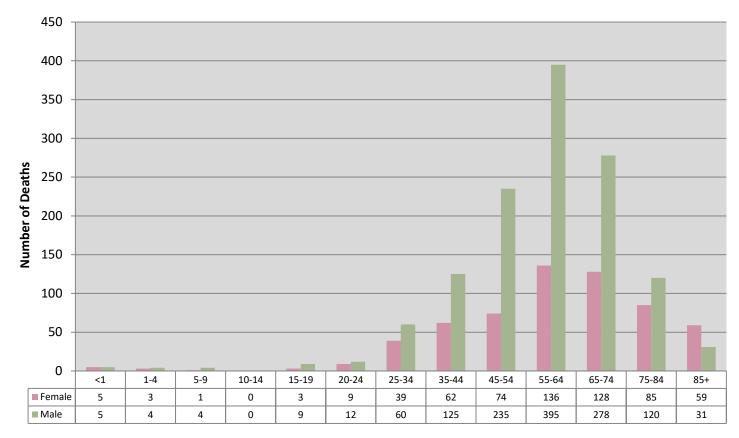


Table 2.13 Number of Natural Deaths Investigated by the OCME by Cause and Method of Death, 2019

Method and Cause of Death	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Acute coronary insufficiency	7	219
Arrhythmogenic right ventricular dysplasia	1	1
Atherosclerosis	63	614
Atherosclerosis and hypertension	70	148
Cardiac dysrhythmia of undetermined etiology	18	25
Cardiomyopathy not otherwise specified	18	25
Congenital defect	3	4
Hypertension	44	218
Other cardiac disease/disorder	14	19
Valvular	6	7
Vascular dissection/rupture	8	8
Central Nervous System Diseases/Disorders		
CNS malignancy	0	1
Degenerative disease	3	10
Other CNS disease/disorder	8	16
Meningitis (bacterial or viral)	4	4
Seizure disorder	12	25
Vascular disease	9	29
Gastrointestinal Diseases/Disorders		
Cirrhosis	9	19
GI hemorrhage	2	10
GI malignancy	8	15
Hepatitis	0	5
Other GI disease/disorder	13	17
Genitourinal Diseases/Disorders		
Genitourinal malignancy	1	8
Other GU disease/disorder	1	4
Renal disease	2	3
Other Natural Diseases/Disorders		
Other malignancy	1	6
Other natural disease/disorder	2	3
Perinatal and Pediatric Diseases/Disorders		
Maternal complications	1	1
Sudden infant death syndrome	1	1
Other perinatal or pediatric disorder	1	1
Pulmonary Disease/Disorders		
Asthma	4	6
COPD	3	32

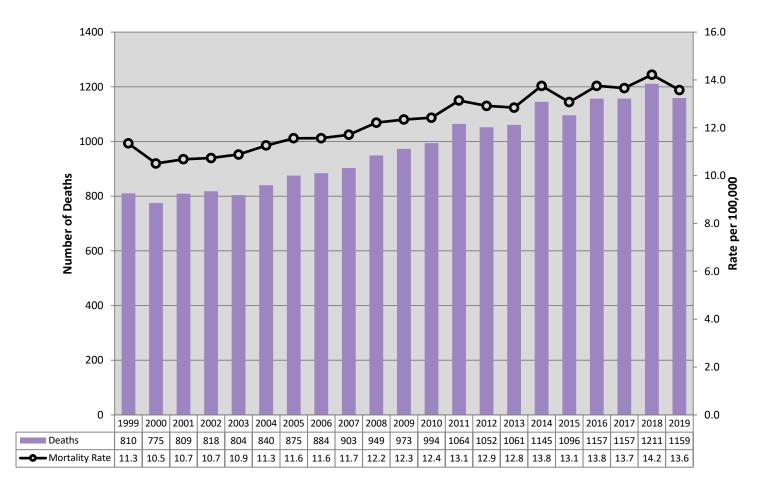
Emboli	24	30
Pneumonia	18	28
Pulmonary malignancy	4	11
Other pulmonary disease/disorder	4	9
Systemic Diseases/Disorders		
AIDS/HIV	1	3
Blood disorders	3	4
Chronic alcoholism	37	184
Chronic drug abuse	2	3
Complications of dementia	5	7
Diabetes	13	57
Metastatic malignancy of unknown primary	1	3
Obesity	3	12
Other infectious disease	1	1
Other systemic disease/disorder	5	15
Sepsis	9	11
TOTAL NATURAL DEATHS	467	1882

SUICIDE DEATHS (N=1,159)

In general, suicide deaths have been slowly increasing since 1999. The number of suicide deaths in 2019 compared to 2018 decreased 4.3%. The largest number of victims were male (77.5%), White (80.9%), and aged 55-64 years of age (17.3%). Males 85+ years of age and older as well as white males had the highest rates of suicide compared to other groups within the total population (47.5 and 27.6 per 100,000 persons, respectively).

- Whites committed suicide at a rate 4.4 times that of Hispanics, 3.3 times that of Asians, and 2.3 times that of Blacks
- Males were 3.6 times more likely to commit suicide than females
- Firearms (specifically handguns), hangings, and drug use were the three most commonly used methods in suicides, with these deaths representing 57.5%, 22.5%, and 10.4% of all suicides, respectively

Figure 2.21 Number and Rate of Suicide Deaths by Year of Death, 1999-2019



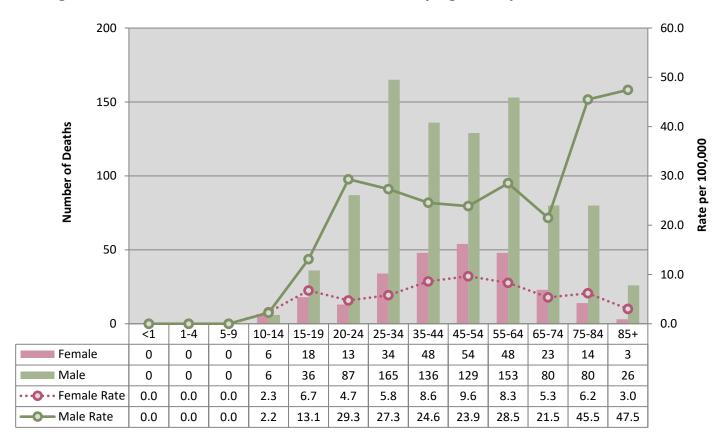
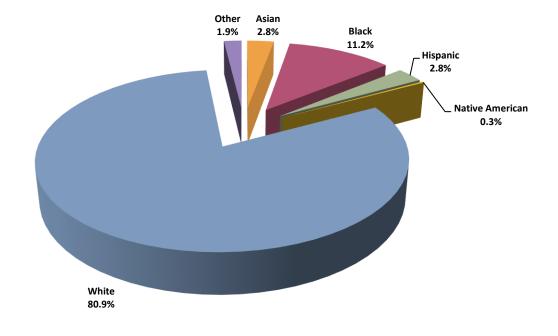


Figure 2.22 Number and Rate of Suicide Deaths by Age Group and Gender, 2019

Figure 2.23 Percentage of Suicide Deaths by Race/Ethnicity, 2019



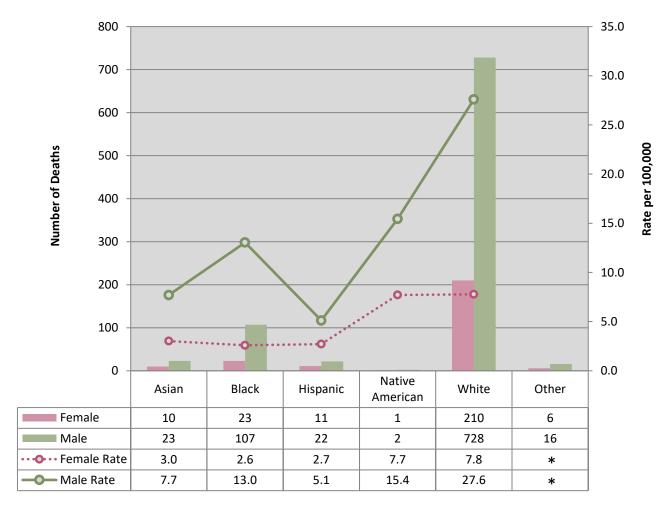


Figure 2.24 Number and Rate of Suicide Deaths by Race/Ethnicity and Gender, 2019

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Native Americans)

^{*}No rate can be calculated

Table 2.14 Number of Suicide Deaths by Cause and Method of Death, 2019

Method of Death	Autopsied	Total Cases
Asphyxia		
Carbon monoxide (CO) poisoning-motor vehicle exhaust	0	3
Carbon monoxide (CO) poisoning-other	0	2
Drowned	6	8
Hanged	60	261
Helium asphyxia	0	2
Oxygen depletion or replacement	0	4
Plastic bag asphyxia	4	8
Strangled/Neck compression	0	4
Drug Use		
Ingested ethylene glycol	2	4
Ingested and/or injected illicit, prescription, and/or other type of drug	49	112
Other poisoning (e.g. heavy metals, detergent suicide)	3	4
Exposure		
Exposed to cold	0	1
Fire		
Thermal and/or inhalational Injuries	3	7
Jump/Fall		
Jumped/Fell from height	4	23
Traumatic Injury		
Cut/Stabbed self	17	24
Gunshot wound		
Handgun	552	552
Other	2	2
Rifle	42	42
Shotgun	69	69
Unknown	2	2
Other traumatic injury	1	1
Vehicular		
Car	2	8
Pickup truck	1	1
Sport utility vehicle	1	4
Tractor trailer	0	2
Train	1	9
TOTAL SUICIDE DEATHS	821	1159

Number of Deaths 10-14 15-19 20-24 25-34 35-44 45-54 75-84 55-64 65-74 85+ ■ No Ethanol ■ 0.01-0.07% BAC ■>0.08% BAC

Figure 2.25 Number of Suicide Deaths by Age Group and Ethanol Level (N=431), 2019

Note: Of the 1,159 suicides, 62.8% (n=728) did not receive toxicology testing

■ Female ■ Male **Number of Deaths** No Ethanol 0.01-0.07% BAC >0.08% BAC

Figure 2.26 Number of Suicide Deaths by Gender and Ethanol Level (N=431), 2019

Note: Of the 1,159 suicides, 62.8% (n=728) did not receive toxicology testing

Table 2.15 Number of Suicide Deaths by Method of Death and Ethanol Level (N=431), 2019

Method	d of Death	No	0.01- 0.07%	>0.08%	TOTAL
		Ethanol	BAC	BAC	
Asphyx					
	Carbon monoxide (CO) poisoning-motor vehicle exhaust	1	0	2	3
	Carbon monoxide (CO) poisoning-other	1	1	0	2
	Drowned	5	0	0	5
	Hanged	67	3	11	81
	Helium asphyxia	0	0	0	0
	Oxygen depletion or replacement	3	0	0	3
	Plastic bag asphyxia	4	0	1	5
	Strangled/Neck compression	0	1	0	1
Drug Us	se				
	Ingested ethylene glycol	4	0	0	4
	Ingested and/or injected illicit, prescription, and/or other				
	type of drug	83	10	14	107
	Other poisoning (e.g. heavy metals, detergent suicide)	4	0	0	4
Exposu	re				
	Exposed to cold	0	0	1	1
Fire					
	Thermal and/or inhalational Injuries	5	0	0	5
Jump/F	all				
-	Jumped/Fell from height	11	0	2	13
Trauma	itic Injury				
	Cut/Stabbed self	12	2	2	16
	Gunshot wound				0
	Handgun	85	6	46	137
	Other	0	0	0	0
	Rifle	3	0	3	6
	Shotgun	8	2	4	14
	Unknown	0	0	0	0
	Other traumatic injury	1	0	0	1
Vehicul	·		-	-	
	Car	7	1	0	8
	Pickup truck	1	0	0	1
	Sport utility vehicle	2	0	2	4
	Tractor trailer	2	0	0	2
	Train	7	0	1	8
TOTAL	SUICIDE DEATHS	316	26	89	431

Note: Of the 1,159 suicides, 62.8% (n=728) did not receive toxicology testing

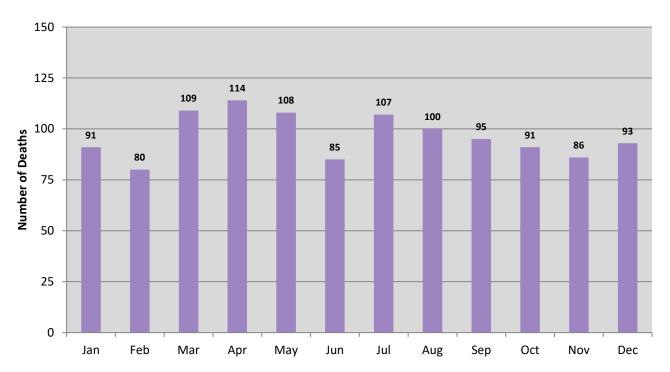


Figure 2.27 Number of Suicide Deaths by Month of Death, 2019

Figure 2.28 Number of Suicide Deaths by Day of the Week, 2019

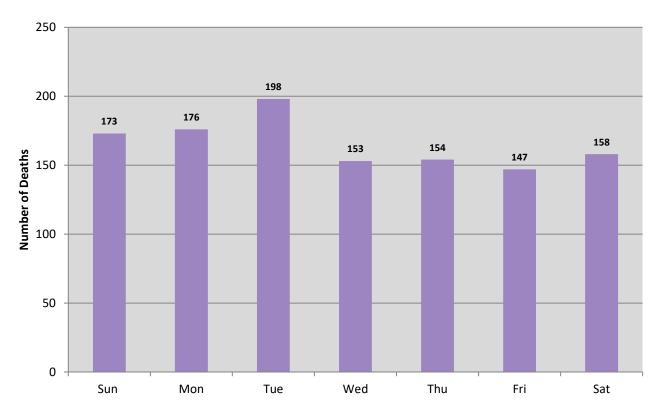


Table 2.16 Number and Rate of Suicide Deaths by Locality of Residence, 2019

Locality of Residence	Deaths	Rate
Accomack County	6	18.6
Albemarle County	14	12.8
Alexandria City	10	6.3
Alleghany County	4	26.9
Amelia County	4	30.4
Amherst County	7	22.1
Appomattox County	2	12.6
Arlington County	11	4.6
Augusta County	14	18.5
Bath County	1	24.1
Bedford County	14	17.7
Bland County	2	31.8
Botetourt County	6	18.0
Bristol City	2	11.9
Brunswick County	1	6.2
Buchanan County	5	23.8
Buckingham County	4	23.3
Buena Vista City	1	15.4
Campbell County	5	9.1
Caroline County	4	13.0
Carroll County	9	30.2
Charles City County	1	14.4
Charlotte County	3	25.3
Charlottesville City	3	6.3
Chesapeake City	42	17.2
Chesterfield County	51	14.5
Clarke County	1	6.8
Colonial Heights City	5	28.8
Covington City	1	18.1
Craig County	0	0.0
Culpeper County	7	13.3
Cumberland County	1	10.1
Danville City	4	10.0
Dickenson County	4	27.9
Dinwiddie County	4	14.0
Emporia City	0	0.0
Essex County	3	27.4
Fairfax City	4	16.7
Fairfax County	98	8.5
Falls Church City	0	0.0
Fauquier County	7	9.8
Floyd County	2	12.7
Fluvanna County	5	18.3
Virginia Donartment of Health		

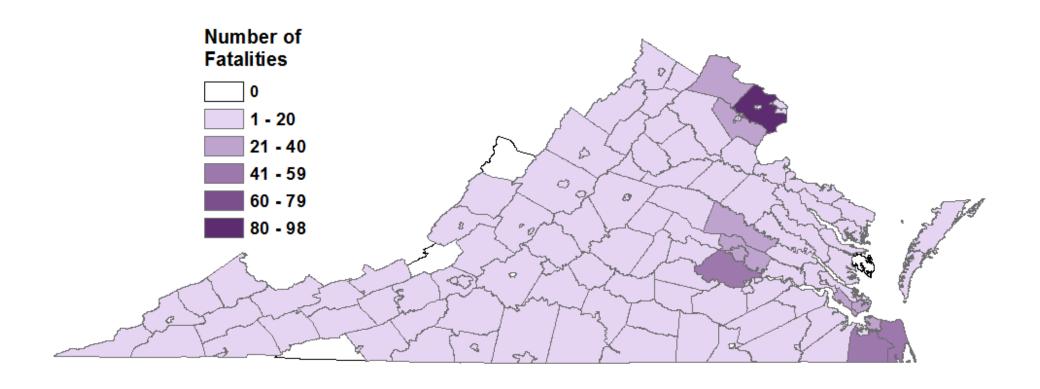
Locality of Residence	Deaths	Rate
Franklin City	1	12.6
Franklin County	8	14.3
Frederick County	17	19.0
Fredericksburg City	3	10.3
Galax City	2	31.5
Giles County	2	12.0
Gloucester County	6	16.1
Goochland County	4	16.8
Grayson County	0	0.0
Greene County	3	15.1
Greensville County	3	26.5
Halifax County	3	8.8
Hampton City	22	16.4
Hanover County	21	19.5
Harrisonburg City	2	3.8
Henrico County	39	11.8
Henry County	10	19.8
Highland County	0	0.0
Hopewell City	10	44.4
Isle of Wight County	6	16.2
James City County	12	15.7
King and Queen County	2	28.5
King George County	2	7.5
King William County	6	35.0
Lancaster County	4	37.7
Lee County	5	21.3
Lexington City	0	0.0
Loudoun County	32	7.7
Louisa County	13	34.6
Lunenburg County	1	8.2
Lynchburg City	8	9.7
Madison County	5	37.7
Manassas	2	4.9
Manassas Park	1	5.7
Martinsville City	4	31.9
Mathews County	0	0.0
Mecklenburg County	4	13.1
Middlesex County	2	18.9
Montgomery County	16	16.2
Nelson County	5	33.5
New Kent County	1	4.3
Newport News City	22	12.3
Norfolk City	31	12.8

Locality of Residence	Deaths	Rate
Northampton County	4	34.2
Northumberland County	5	41.3
Norton City	0	0.0
Nottoway County	1	6.6
Orange County	3	8.1
Page County	3	12.6
Patrick County	6	34.1
Petersburg City	4	12.8
Pittsylvania County	13	21.5
Poquoson City	3	24.4
Portsmouth City	12	12.7
Powhatan County	4	13.5
Prince Edward County	2	8.8
Prince George County	6	15.6
Prince William County	37	7.9
Pulaski County	6	17.6
Radford City	1	5.5
Rappahannock County	6	81.4
Richmond City	25	10.8
Richmond County	2	22.2
Roanoke City	19	19.2
Roanoke County	8	8.5
Rockbridge County	4	17.7
Rockingham County	14	17.1
Russell County	6	22.6
Salem City	2	7.9

Locality of Residence	Deaths	Rate
Scott County	7	32.5
Shenandoah County	8	18.3
Smyth County	6	19.9
Southampton County	4	22.7
Spotsylvania County	17	12.5
Stafford County	11	7.2
Staunton City	4	16.0
Suffolk City	11	11.9
Surry County	1	15.6
Sussex County	2	17.9
Tazewell County	9	22.2
Virginia Beach City	54	12.0
Warren County	14	34.9
Washington County	9	16.7
Waynesboro City	7	30.9
Westmoreland County	3	16.7
Williamsburg City	1	6.7
Winchester City	4	14.2
Wise County	3	8.0
Wythe County	7	24.4
York County	8	11.7
Subtotal (in-state)	1098	12.9
Out of State	57	ND
Unknown	4	ND
Subtotal (out-of-state)	61	ND
TOTAL	1159	13.6

Note: No denominator is represented by ND

Map 2.5 Number of Suicides by Locality of Residence, 2019



Map 2.6 Suicide Rates by Locality of Residence, 2019

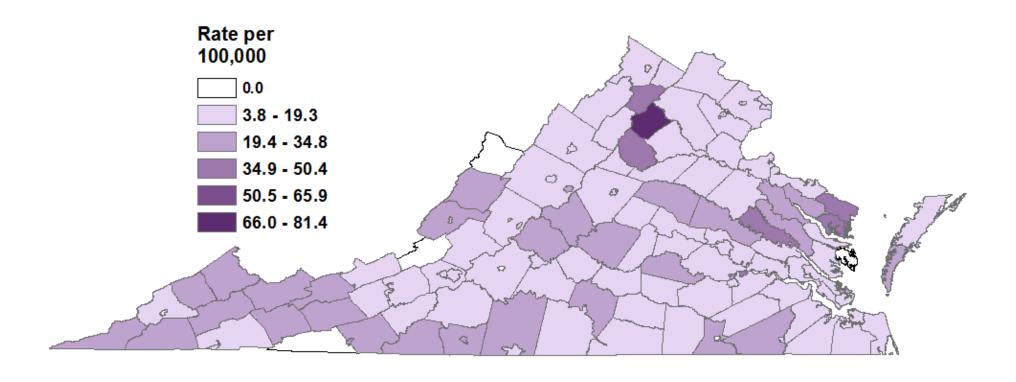


Table 2.17 Number of Suicide Deaths by Locality of Injury and Year of Death, 2006-2019

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
Accomack County	4	2	1	4	6	6	1	4	4	9	4	5	4	8	62
Albemarle County	2	6	8	13	6	11	10	12	15	11	7	12	14	13	140
Alexandria City	12	11	13	14	14	14	10	16	15	10	16	18	10	9	182
Alleghany County	3	2	0	4	6	5	4	1	2	3	5	0	3	4	42
Amelia County	2	1	1	3	1	4	6	1	5	6	2	2	2	4	40
Amherst County	4	6	6	7	7	4	7	2	10	2	6	5	10	6	82
Appomattox County	2	0	0	3	3	2	2	1	2	8	2	1	3	3	32
Arlington County	14	12	28	10	21	16	16	18	18	11	18	21	10	18	231
Augusta County	12	11	13	16	11	14	16	20	20	15	15	17	16	16	212
Bath County	1	0	1	0	0	1	1	2	2	2	0	0	4	1	15
Bedford City	1	1	1	2	2	0	1	3	*	*	*	*	*	*	11
Bedford County	7	6	9	14	14	13	8	10	10	15	12	20	15	15	168
Bland County	2	1	0	3	1	1	1	1	3	2	2	1	1	2	21
Botetourt County	3	4	3	5	2	6	5	7	1	9	7	6	6	8	72
Bristol City	4	4	1	2	3	3	1	1	5	0	2	1	2	3	32
Brunswick County	2	2	1	1	3	1	1	2	2	2	3	4	4	1	29
Buchanan County	5	6	7	7	10	1	5	4	3	5	5	4	7	6	75
Buckingham County	3	3	5	1	3	2	2	4	2	2	3	2	3	6	41
Buena Vista City	0	0	1	1	1	0	0	1	0	0	0	2	0	1	7
Campbell County	6	3	7	6	6	10	9	13	8	12	7	5	12	7	111
Caroline County	3	6	3	3	5	2	2	8	12	4	6	8	6	6	74
Carroll County	6	8	6	10	9	7	6	8	6	8	5	10	4	8	101
Charles City County	0	0	2	2	2	3	7	1	2	2	2	1	1	1	26
Charlotte County	3	2	1	3	2	3	1	3	1	3	1	3	4	1	31
Charlottesville City	11	7	5	4	3	1	7	5	6	5	4	5	9	5	77
Chesapeake City	19	20	18	25	25	24	26	26	31	36	29	27	31	39	376
Chesterfield County	29	25	32	32	34	40	39	46	49	31	51	48	48	57	561
Clarke County	2	1	3	3	3	5	0	1	3	8	2	8	4	2	45
Colonial Heights City	1	2	3	1	2	1	6	2	6	4	6	6	4	4	48
Covington City	2	2	1	0	0	2	2	2	1	2	1	3	2	1	21
Craig County	0	1	2	4	0	2	1	4	0	2	4	1	1	0	22

Virginia Department of Health

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
Culpeper County	6	10	2	11	5	7	9	5	9	9	5	10	11	4	103
Cumberland County	0	1	2	2	0	3	1	3	1	0	1	0	3	1	18
Danville City	7	3	4	8	7	6	4	5	9	3	9	6	8	5	84
Dickenson County	2	5	5	8	7	5	7	7	7	4	6	4	5	4	76
Dinwiddie County	3	3	1	1	7	3	2	1	3	7	4	5	3	4	47
Emporia City	3	0	2	1	1	0	0	0	0	0	0	0	2	0	9
Essex County	0	1	3	2	3	2	3	2	5	0	1	0	1	3	26
Fairfax City	2	2	1	6	4	2	2	4	3	7	1	5	2	6	47
Fairfax County	85	87	88	104	87	90	98	109	107	85	93	90	103	99	1325
Falls Church City	0	1	3	0	1	0	2	1	0	0	1	2	3	0	14
Fauquier County	7	4	8	9	14	14	13	16	9	10	9	16	6	9	144
Floyd County	2	2	1	3	4	4	5	5	6	3	0	1	8	2	46
Fluvanna County	2	3	4	2	2	3	5	6	2	1	1	5	3	5	44
Franklin City	0	0	0	0	1	0	1	1	2	0	0	2	0	0	7
Franklin County	5	8	6	7	3	10	11	12	6	10	8	9	5	7	107
Frederick County	9	7	7	8	8	14	19	12	20	14	13	17	12	19	179
Fredericksburg City	6	4	5	2	4	5	3	2	3	9	1	3	5	4	56
Galax City	1	1	2	1	3	3	1	0	1	2	0	2	1	2	20
Giles County	2	3	3	5	3	4	2	3	2	1	4	3	4	2	41
Gloucester County	7	6	9	4	8	12	9	4	4	14	10	6	8	6	107
Goochland County	2	5	2	4	2	0	1	6	4	7	8	4	3	4	52
Grayson County	3	2	5	2	2	8	5	2	4	1	4	2	5	1	46
Greene County	4	2	2	3	4	3	1	1	2	1	4	4	4	3	38
Greensville County	2	0	0	2	2	4	1	4	1	0	0	4	5	2	27
Halifax County	8	4	4	5	5	4	6	3	6	7	7	4	5	4	72
Hampton City	13	16	18	16	9	7	13	17	18	15	19	13	11	18	203
Hanover County	12	15	17	11	6	15	23	21	16	13	14	13	18	23	217
Harrisonburg City	2	4	4	6	6	2	1	4	6	5	8	6	6	4	64
Henrico County	37	25	25	39	30	42	31	41	36	36	31	45	32	38	488
Henry County	11	12	19	13	16	10	9	9	10	10	10	8	11	10	158
Highland County	0	0	0	0	1	1	1	2	1	2	2	0	0	0	10

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
Hopewell City	1	2	2	3	3	2	3	4	5	4	5	4	5	9	52
Isle of Wight County	5	1	0	3	2	4	6	4	5	7	7	7	8	8	67
James City County	5	4	9	7	9	6	10	4	12	11	9	7	11	11	115
King and Queen County	2	4	2	1	1	1	3	0	1	1	2	1	3	2	24
King George County	3	2	2	3	6	3	4	8	5	3	6	3	8	2	58
King William County	1	1	1	4	0	2	7	2	3	5	5	3	1	5	40
Lancaster County	0	3	4	1	2	2	4	2	2	4	4	3	1	4	36
Lee County	5	4	7	5	2	5	9	4	5	7	3	7	6	6	75
Lexington City	0	1	0	0	0	0	1	1	1	2	4	1	1	0	12
Loudoun County	20	23	13	24	20	35	35	34	34	36	45	41	36	35	431
Louisa County	5	8	2	5	9	7	3	3	2	5	7	5	8	12	81
Lunenburg County	6	1	1	3	1	2	3	2	2	3	4	4	0	1	33
Lynchburg City	8	6	13	5	9	10	6	4	7	10	7	14	16	6	121
Madison County	2	4	3	1	3	1	4	1	4	6	4	0	5	6	44
Manassas	2	3	8	3	1	4	5	2	6	4	4	4	2	2	50
Manassas Park	Unknown	1	1	0	1	1	0	4	4	1	1	0	0	2	16
Martinsville City	0	4	0	1	1	4	1	3	2	2	0	3	2	3	26
Mathews County	1	0	2	0	1	2	1	1	3	2	3	3	2	0	21
Mecklenburg County	4	6	7	5	8	4	4	4	3	6	7	7	7	6	78
Middlesex County	0	1	1	5	1	3	3	4	0	3	1	5	2	2	31
Montgomery County	11	22	8	5	9	14	8	7	11	10	17	15	14	17	168
Nelson County	2	1	3	4	4	3	3	4	3	2	2	4	1	5	41
New Kent County	3	2	2	3	1	6	5	3	5	4	5	3	4	2	48
Newport News City	11	15	18	14	20	23	29	19	25	22	30	23	25	24	298
Norfolk City	27	33	29	22	29	28	29	30	34	23	26	35	35	39	419
Northampton County	0	4	1	0	1	5	0	2	3	3	2	3	1	4	29
Northumberland County	1	3	2	0	4	3	0	0	1	2	2	2	1	4	25
Norton City	0	0	2	1	0	1	1	0	0	0	1	1	2	0	9
Nottoway County	1	0	4	4	3	3	2	1	5	4	1	3	3	2	36
Orange County	6	4	5	2	4	5	12	6	9	10	6	7	4	4	84

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
Page County	6	5	7	3	4	8	4	5	11	5	6	4	4	3	75
Patrick County	3	4	4	4	7	4	5	9	5	6	5	3	4	6	69
Petersburg City	1	4	7	3	4	3	4	2	6	5	8	4	1	5	57
Pittsylvania County	13	9	6	13	9	9	12	16	5	10	14	14	20	13	163
Poquoson City	1	1	1	0	0	0	0	2	1	0	2	2	2	3	15
Portsmouth City	8	14	10	11	16	8	20	9	13	16	16	14	16	15	186
Powhatan County	5	1	4	2	8	6	5	4	6	6	4	5	2	3	61
Prince Edward County	3	3	1	5	3	3	4	3	4	4	2	4	5	3	47
Prince George County	6	7	7	7	5	4	2	5	8	6	7	8	7	7	86
Prince William County	32	28	35	41	41	28	33	37	38	30	47	39	50	33	512
Pulaski County	11	10	2	6	9	9	6	7	1	8	12	9	7	5	102
Radford City	1	0	2	0	2	1	1	5	2	1	2	1	2	1	21
Rappahannock County	0	4	3	1	3	2	5	0	2	2	1	1	1	4	29
Richmond City	32	25	22	35	21	32	25	27	23	25	30	30	31	31	389
Richmond County	1	1	4	0	2	1	1	1	0	1	4	0	2	2	20
Roanoke City	10	15	19	13	18	19	25	16	21	16	17	22	28	17	256
Roanoke County	11	7	19	9	20	14	13	12	17	14	16	12	24	9	197
Rockbridge County	5	4	6	5	5	6	3	3	7	4	4	6	5	4	67
Rockingham County	9	10	9	4	12	10	9	10	10	21	14	14	11	15	158
Russell County	5	4	10	7	5	6	6	6	4	4	7	4	1	7	76
Salem City	4	7	5	0	2	6	6	6	9	7	7	6	3	3	71
Scott County	3	12	5	4	5	6	5	4	2	4	7	7	6	8	78
Shenandoah County	7	5	8	8	5	9	7	7	8	10	15	10	6	10	115
Smyth County	3	11	5	3	3	6	7	10	6	5	4	6	7	3	79
Southampton County	4	1	4	3	4	2	2	2	1	2	2	3	3	4	37
Spotsylvania County	13	18	17	10	22	11	13	15	14	14	26	11	17	19	220
Stafford County	6	14	15	15	5	9	13	19	11	20	18	15	27	13	200
Staunton City	4	7	1	6	4	4	1	3	3	2	3	4	3	4	49
Suffolk City	11	1	10	6	5	14	12	12	14	11	6	10	12	8	132
Surry County	0	1	0	4	1	0	2	1	0	0	0	2	1	1	13
Sussex County	1	2	1	4	4	1	1	4	0	2	3	2	3	3	31

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
Tazewell County	11	4	4	12	6	6	8	5	5	14	7	8	8	7	105
Virginia Beach City	61	49	45	59	63	65	51	49	71	46	61	53	70	55	798
Warren County	3	12	8	6	5	7	8	7	8	6	10	6	8	12	106
Washington County	6	10	11	13	10	10	11	9	8	12	14	19	8	10	151
Waynesboro City	6	3	3	4	2	3	2	4	0	6	3	2	9	6	53
Westmoreland County	4	2	4	2	2	5	5	3	4	1	4	3	3	3	45
Williamsburg City	10	2	1	1	8	6	1	0	6	4	2	4	4	3	52
Winchester City	6	1	7	2	6	5	3	3	9	7	4	4	8	3	68
Wise County	9	13	8	4	5	9	3	3	8	7	5	15	8	5	102
Wythe County	4	4	8	5	2	7	4	3	5	9	7	8	10	7	83
York County	3	8	11	6	11	15	8	7	8	6	4	8	8	9	112
Subtotal (in-state)	882	897	945	968	989	1055	1049	1055	1133	1086	1151	1155	1202	1149	14716
Out of State	2	6	3	4	4	9	3	5	9	8	4	1	2	4	64
Unknown	0	0	1	1	1	0	0	1	3	2	2	1	7	6	25
Subtotal (out-of-state)	2	6	4	5	5	9	3	6	12	10	6	2	9	10	89
TOTAL	884	903	949	973	994	1064	1052	1061	1145	1096	1157	1157	1211	1159	14805

Note: Bedford City was incorporated into Bedford County in 2014 and therefore, numbers are combined from there forward

UNDETERMINED DEATHS (N=164)

Undetermined deaths are those in which after examination, two or more manners cannot be eliminated and therefore the death must be ruled undetermined. In 2019, the number of undetermined deaths slightly decreased compared to 2018 (5.7%). Generally, undetermined deaths have increased since 2006 mainly due to the transition in diagnostic criteria of sudden infant death syndrome (SIDS) to sudden unexpected infant death (SUID), where SIDS deaths are classified as natural deaths and SUID deaths are classified as undetermined deaths.

- Nearly 33% of the cases assigned an undetermined manner had a determined cause of death
- Over 55% of deaths with an undetermined manner were among infants less than 1 year of age

300 3.0 250 2.5 200 2.0 **Number of Deaths** Rate per 100,000 150 100 1.0 50 0.5 0.0 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 Deaths 86 83 81 90 133 141 145 153 162 171 165 206 183 230 151 174 164 58 83 71 72 0.8 0.8 2.0 Mortality Rate 1.0 1.0 1.0 1.1 1.1 1.2 1.7 1.8 1.8 1.9 2.0 2.1 2.5 2.2 2.7 1.8 2.0 1.9

Figure 2.29 Number and Rate of Undetermined Deaths by Year of Death, 1999-2019

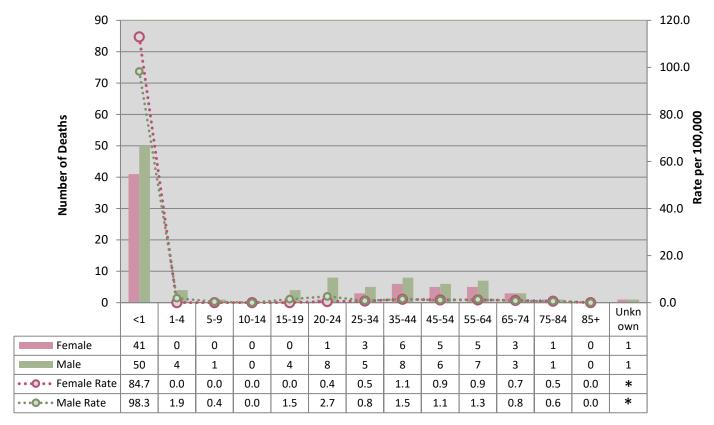


Figure 2.30 Number and Rate of Undetermined Deaths by Age Group and Gender, 2019

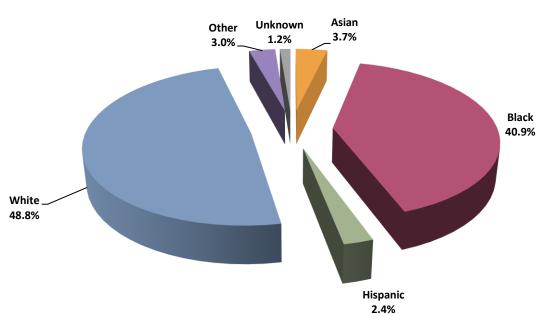


Figure 2.31 Percentage of Undetermined Deaths by Race/Ethnicity, 2019

^{*}No rate can be calculated

Table 2.18 Number of Undetermined Deaths by Cause of Death, 2019

Undetermined Manner of Death with Cause of Death Determined	Autopsied	Total Cases
Asphyxia		
Drowned	3	3
Hanged	1	1
Suffocated/Smothered	3	3
Drug Use		
Ingested and/or injected illicit, prescription, and/or OTC medication	7	9
Jump/Fall		
Jumped/Fell from height	4	4
Motor Vehicle		
Car	0	1
Train	1	1
Unknown	1	1
Traumatic Injury		
Gunshot wound		
Handgun	8	8
Shotgun	1	1
Unknown	1	1
Sharp force injury	1	1
Other/Unknown traumatic causes	20	20
Subtotal (Undetermined Manner with Determined Cause of Death)	51	54
Undetermined Manner of Death and Undetermined Cause of Death		
Skeletal/Mummified remains	18	18
Sudden Unexpected Infant Death (SUID)	70	70
Undetermined after autopsy and/or toxicology	22	22
Subtotal (Undetermined Manner and Undetermined Cause of Death)	110	110
TOTAL UNDETERMINED DEATHS	161	164

SECTION 3: DEATHS OF CHILDREN (N=301)

Child deaths are deaths of persons aged 17 years and younger.

The OCME investigated 301 deaths of children, representing 4.1% of all OCME deaths in 2019.

- Males represented 61.1% of all child cases
- Undetermined deaths of infants <1 year of age certified as sudden unexpected infant death (SUID)
 represented 23.3% of all child deaths in 2019

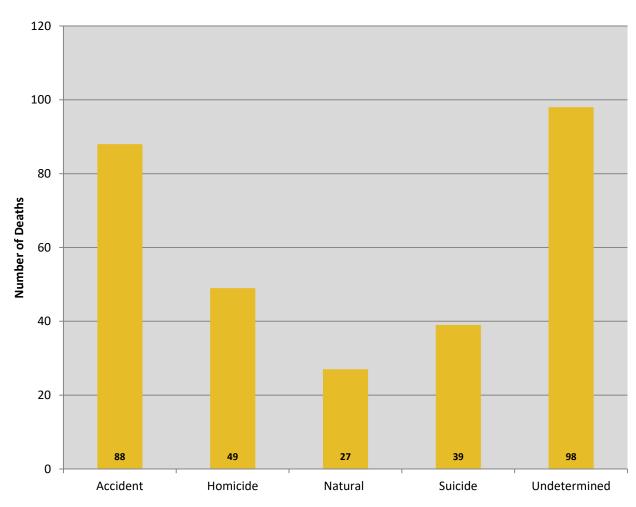


Figure 3.1 Number of Child Deaths by Manner, 2019

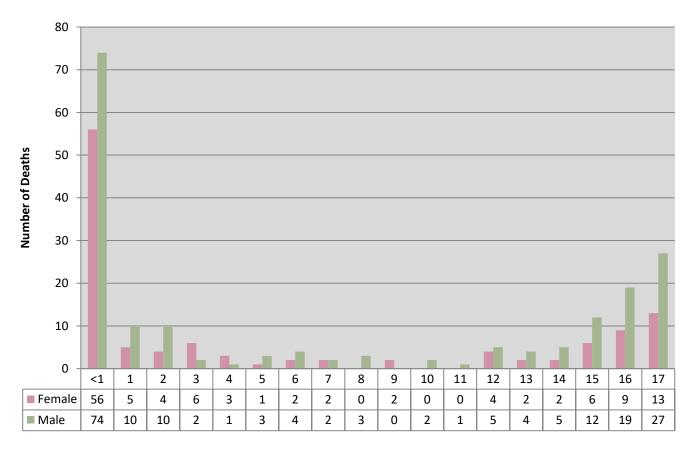
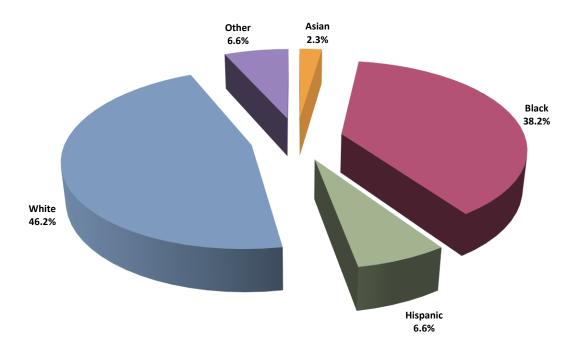


Figure 3.2 Number of Child Deaths by Age and Gender, 2019

Figure 3.3 Percentage of Child Deaths by Race/Ethnicity, 2019



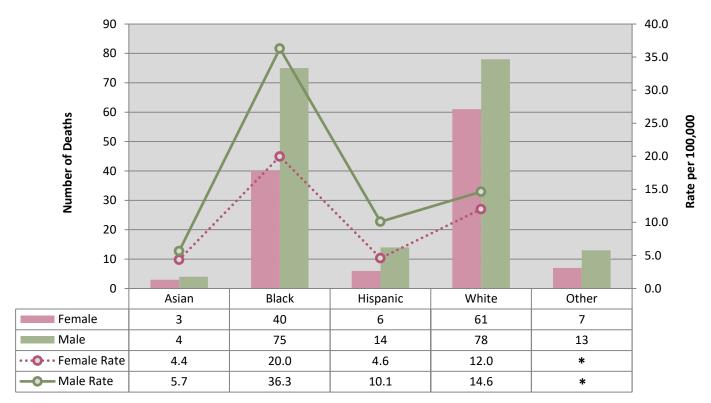


Figure 3.4 Number and Rate of Child Deaths by Gender and Race/Ethnicity, 2019

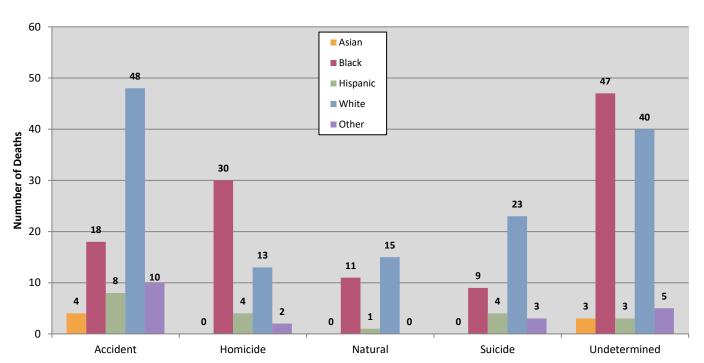


Figure 3.5 Number of Child Deaths by Manner and Race/Ethnicity, 2019

^{*}No rate can be calculated

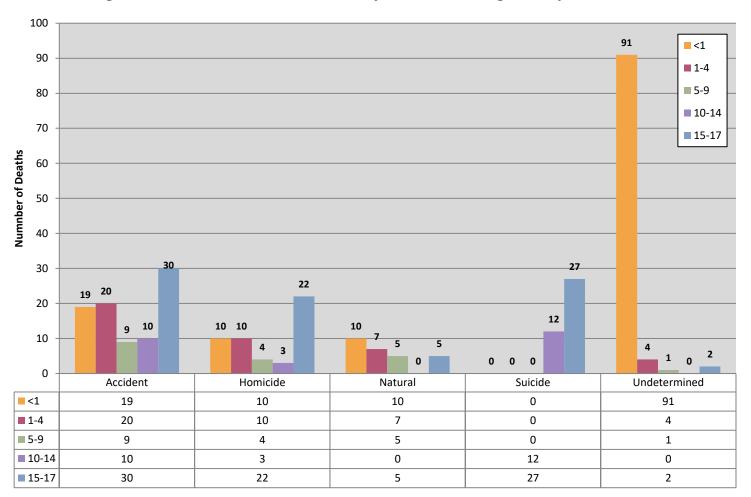


Figure 3.6 Number of Child Deaths by Manner and Age Group, 2019

ACCIDENTAL CHILD DEATHS (N=88)

The number of accidental child deaths decreased by 15.4% in 2019 compared to 2018.

- The largest number of accidental deaths occurred among males (59.1%), Whites (54.5%), and children aged 15-17 years of age (34.1%)
- White males and Black males had the highest rate of accidental death (5.4 and 5.3 deaths per 100,000 persons aged 0-17 years, respectively)
- Motor vehicle accidents were the leading method of death (44.3%), followed by accidental drownings
 (17.0%)

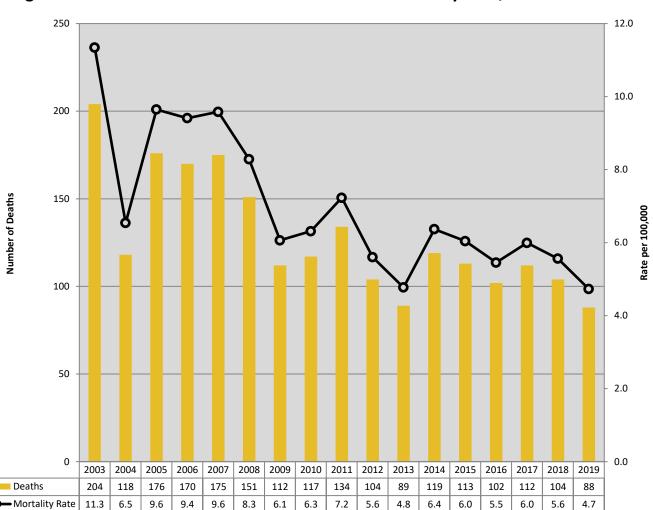


Figure 3.7 Number and Rate of Accidental Child Deaths by Year, 2003-2019

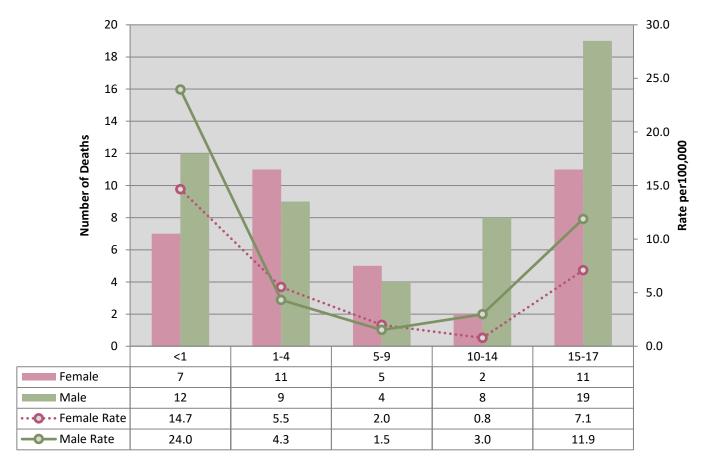
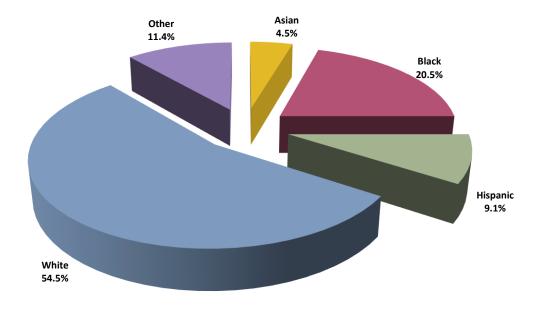


Figure 3.8 Number and Rate of Accidental Child Deaths by Age Group and Gender, 2019

Figure 3.9 Percentage of Accidental Child Deaths by Race/Ethnicity, 2019



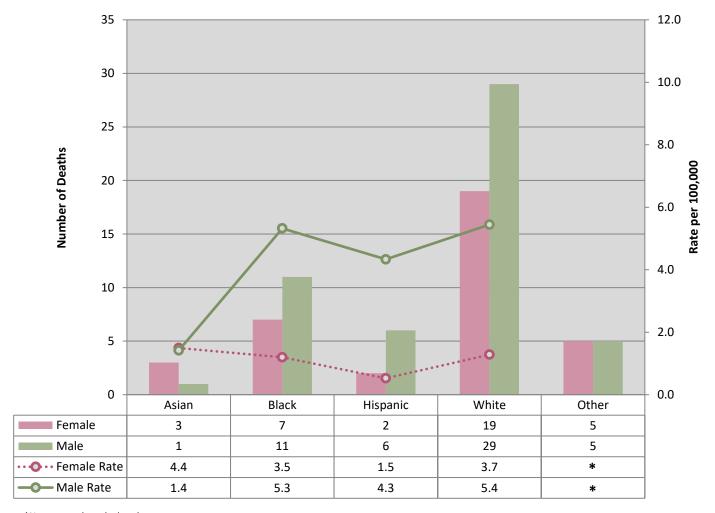


Figure 3.10 Number and Rate of Accidental Child Deaths by Gender and Race/Ethnicity, 2019

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Asians and Hispanics)

^{*}No rate can be calculated

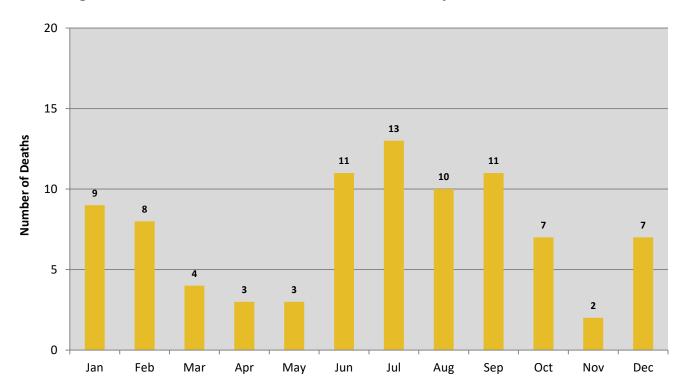


Figure 3.11 Number of Accidental Child Deaths by Month of Death, 2019

Figure 3.12 Number of Accidental Child Deaths by Day of Week, 2019

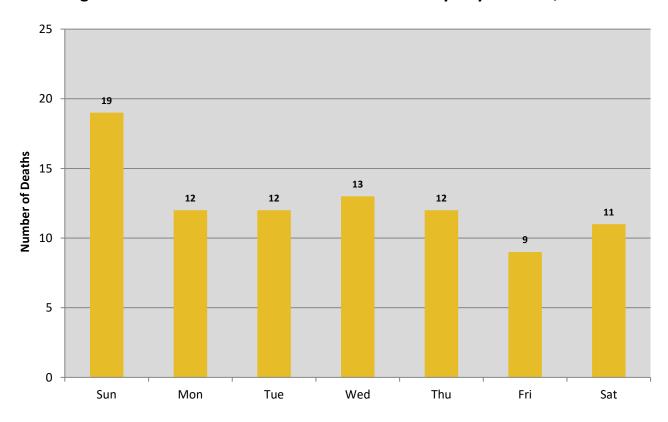


Table 3.1 Number of Accidental Child Deaths by Cause and Method of Death, 2019

Method of Death	Autopsied	Total Cases
Animal/Insect		
Bit, stung, or kicked by an animal/insect	0	1
Asphyxia		
Choked on food/foreign object	0	1
Drowned	15	15
Hanged	1	1
Mechanical/Positional asphyxia	5	5
Other asphyxia	3	4
Suffocated/Smothered	8	8
Drug Use		
Ingested and/or injected illicit, prescription, and/or other type of drug	5	5
Electrical		
Contacted electrical current	0	1
Environmental Exposure		
Exposure to heat	1	1
Fall/Jump		
Fall/Jump from height	1	1
Fire		
Thermal burns and/or inhalation of combustion products	1	1
Motor Vehicle		
Car	2	23
Farm equipment	0	1
Pickup truck	1	6
Sport utility vehicle	1	4
Tractor trailer	1	1
Train	0	1
Van	2	3
Traumatic Injury		
Gunshot wound		
Handgun	2	2
Other Unnatural Deaths		
Other	1	3
TOTAL ACCIDENTAL CHILD DEATHS	50	88

CHILD HOMICIDE DEATHS (N=49)

The number of child homicide deaths in 2019 increased by 28.9% when compared to 2018. Homicides represented 16.3% of all child deaths.

- Homicides in children occurred most frequently among males (73.5%) and among Blacks (61.2%)
- Black males had the highest rate of child homicides with 11.1 deaths per 100,000 persons aged 0-17
 years
- Gunshot wounds (49.0%) were the most common method of child homicide in 2019, followed by beatings (30.6%)

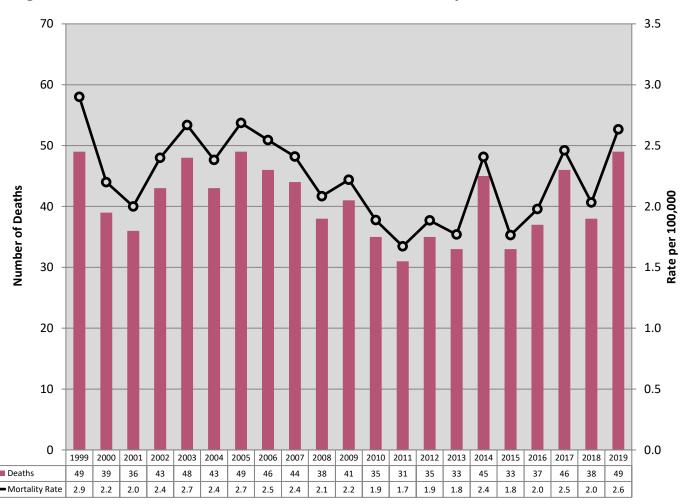


Figure 3.13 Number and Rate of Child Homicide Deaths by Year, 1999-2019

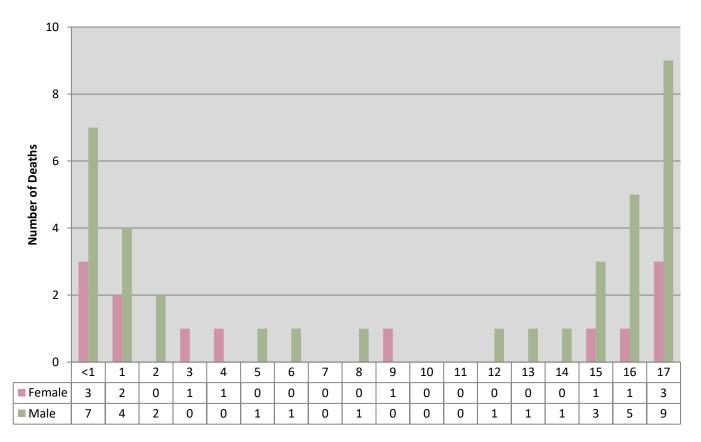
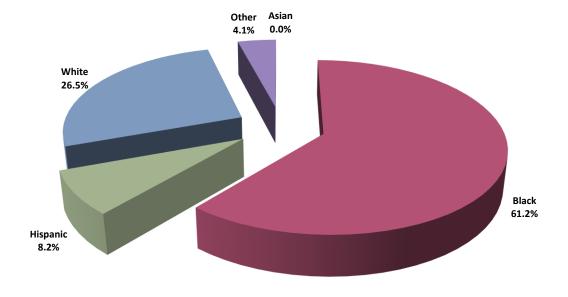


Figure 3.14 Number of Child Homicide Deaths by Age and Gender, 2019

Figure 3.15 Percentage of Child Homicide Deaths by Race/Ethnicity, 2019



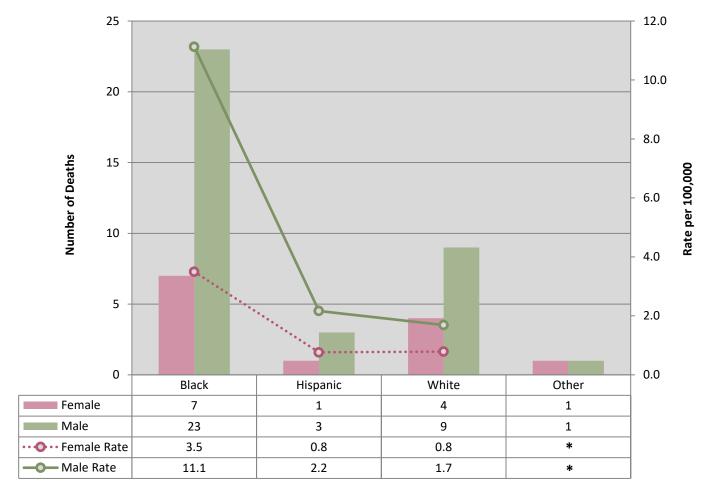


Figure 3.16 Number and Rate of Child Homicide Deaths by Gender and Race/Ethnicity, 2019

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Hispanics and White females)

^{*}No rate can be calculated

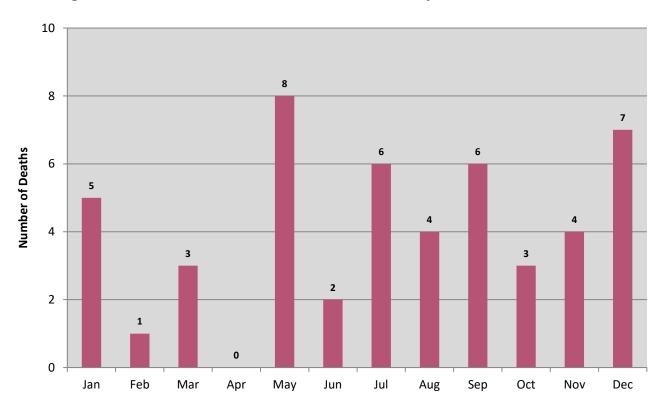


Figure 3.17 Number of Child Homicide Deaths by Month of Death, 2019

Figure 3.18 Number of Child Homicide Deaths by Day of the Week, 2019

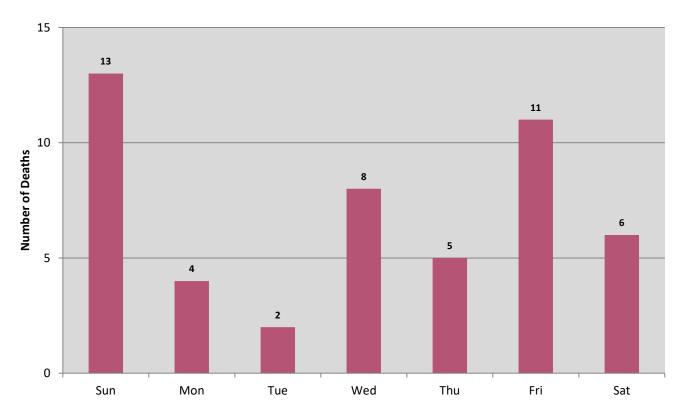


Table 3.2 Number of Child Homicide Deaths by Cause and Method of Death, 2019

Method of Death	Autopsied	Total Cases
Drug Use		
Ingested and/or injected illicit, prescription, and/or other type of drug	2	2
Traumatic Injury		
Beaten by assailant(s)	15	15
Sharp force injuries	4	4
Shot by assailant(s) with firearm		
Handgun	15	15
Rifle	1	1
Shotgun	1	1
Unknown	7	7
Other/Undetermined	4	4
TOTAL CHILD HOMICIDE DEATHS	49	49

NATURAL CHILD DEATHS (N=27)

Infants made up the largest proportion of natural child deaths (9.0%) that fell under the OCME's jurisdiction.

• Pneumonia was the most common cause of natural deaths under OCME jurisdiction among children

NOTE: Due to the change of OCME case definitions which includes the addition of the sudden unexpected infant death (SUID) classification of infant death in 2007 (undetermined manner of death), sudden infant death syndrome (SIDS) cases have drastically decreased (natural manner of death)

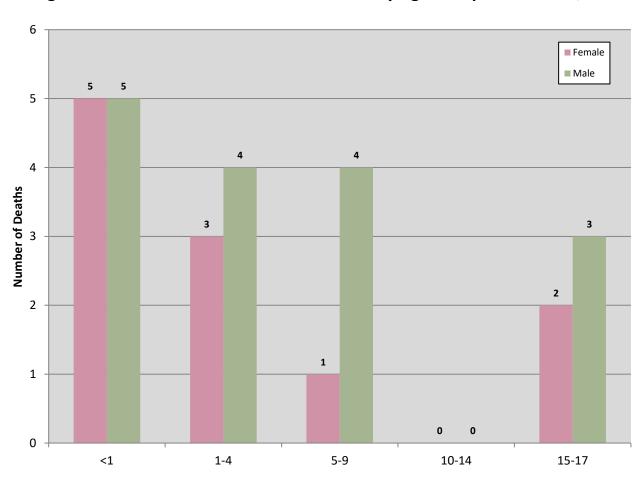


Figure 3.19 Number of Natural Child Deaths by Age Group and Gender, 2019

Figure 3.20 Percentage of Natural Child Deaths by Race/Ethnicity, 2019

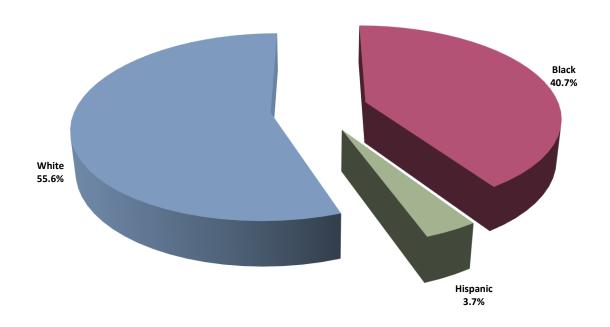


Figure 3.21 Number of OCME SIDS Cases by Year of Death, 2003-2019

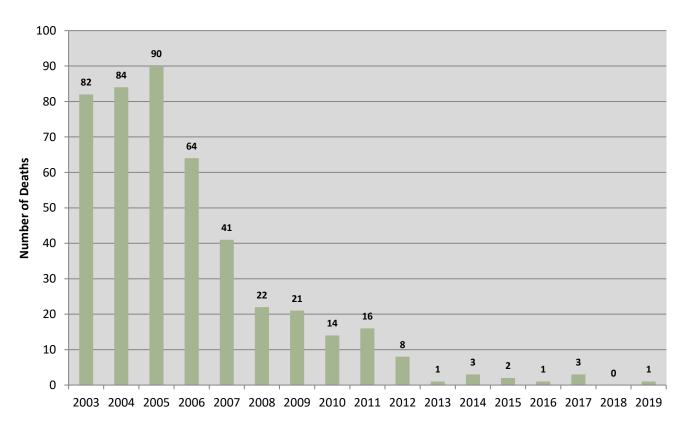


Table 3.3 Number of Natural Child Deaths by Cause and Method of Death, 2019

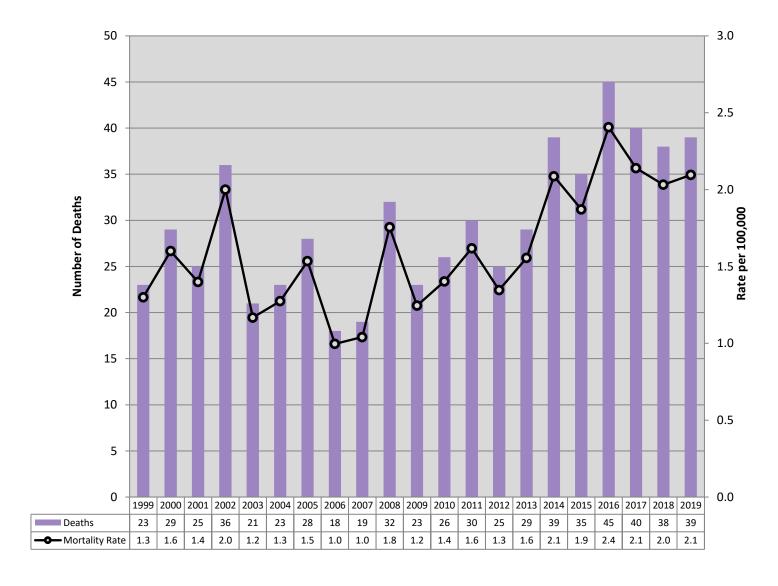
NATURAL CHILD DEATHS	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Cardiomyopathy no otherwise specified	1	1
Congenital heart defect	1	1
Other cardiac disease/disorder	4	4
Central Nervous System Diseases/Disorders		
Seizure disorder	1	1
Other central nervous system disease/disorder	2	2
Gastrointestinal Disease/Disorder		
Other gastrointestinal disease/disorder	2	2
Other Natural Death/Disorder		
Other natural disease/disorder	1	1
Perinatal and Pediatric Diseases/Disorders		
Sudden infant death syndrome (SIDS)	1	1
Other perinatal or pediatric disease/disorder	1	1
Pulmonary Diseases/Disorders		
Asthma	1	1
Pneumonia	5	5
Other pulmonary disease/disorder	2	2
Systemic Diseases/Disorders		
Blood disorder	1	1
Diabetes	1	1
Other infectious disease	1	1
Sepsis	1	1
Other systemic disease/disorder	1	1
TOTAL NATURAL CHILD DEATHS	27	27

CHILD SUICIDE DEATHS (N=39)

The number of child suicide deaths in 2019 were nearly identical to 2018.

- Child suicides are very similar to adult suicides as they occur more frequently in males (59.0%) and Whites (59.0%)
- The most common methods of child suicides were hangings (48.7%) and gunshot wounds (41.0%)

Figure 3.22 Number and Rate of Child Suicide Deaths by Year, 1999-2019



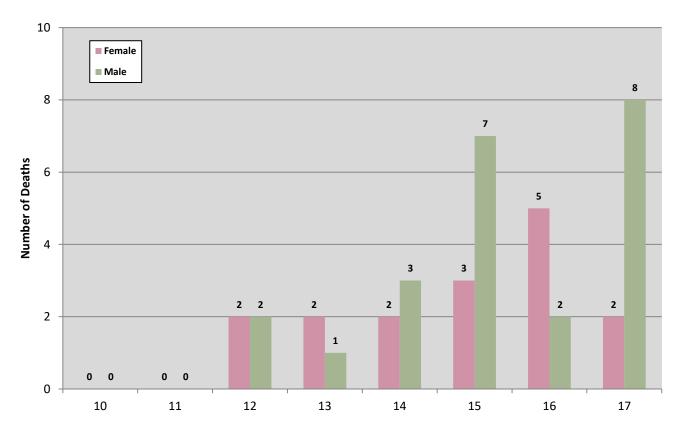
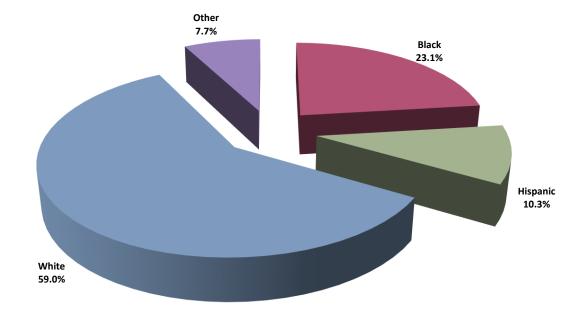


Figure 3.23 Number of Child Suicide Deaths by Age and Gender, 2019

Figure 3.24 Percentage of Child Suicide Deaths by Race/Ethnicity, 2019



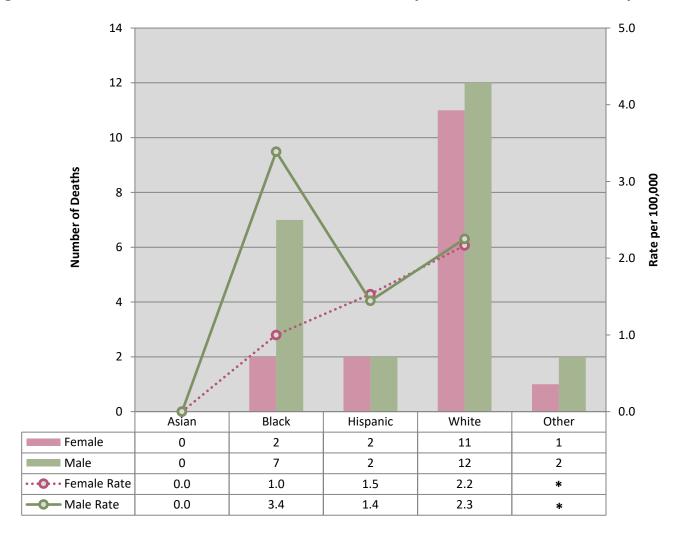


Figure 3.25 Number and Rate of Child Suicide Deaths by Gender and Race/Ethnicity, 2019

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Black females and Hispanics)

^{*}No rate can be calculated

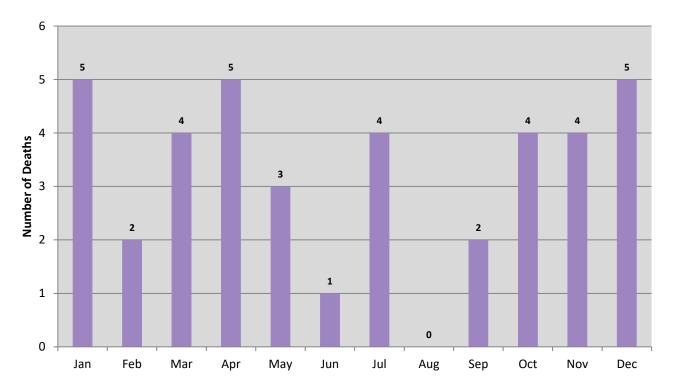


Figure 3.26 Number of Child Suicide Deaths by Month, 2019

Figure 3.27 Number of Child Suicide Deaths by Day of the Week, 2019

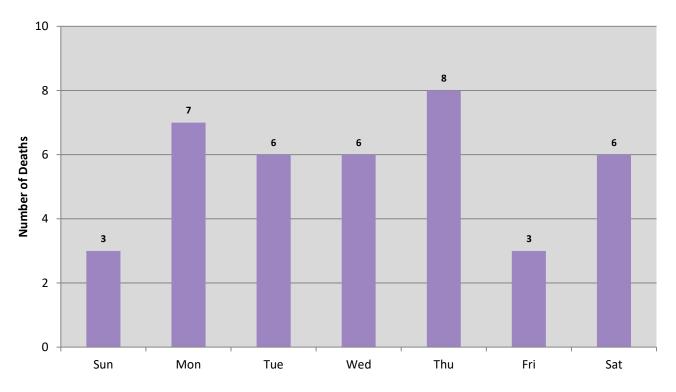


Table 3.4 Number of Child Suicide Deaths by Cause and Method of Death, 2019

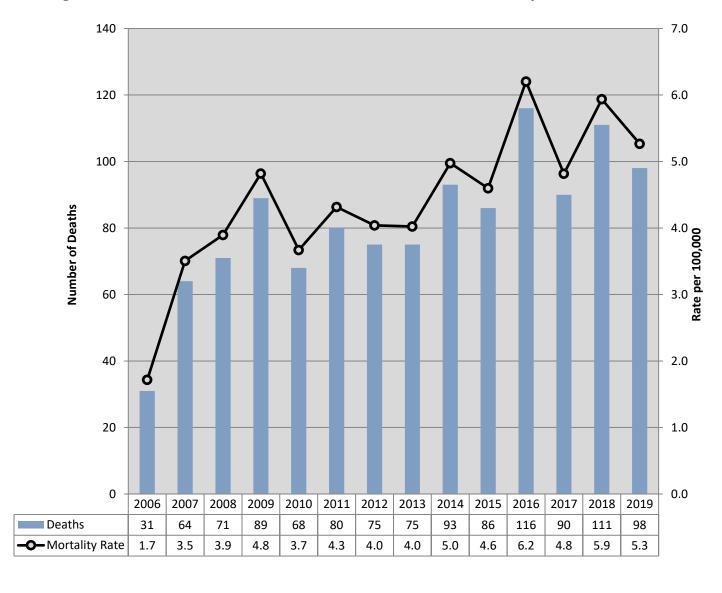
Method of Death	Autopsied	Total Cases
Asphyxia		
Hanged	12	19
Drug Use		
Ingested and/or injected illicit, prescription, and/or other type of drug	4	4
Traumatic Injury		
Gunshot Wound		
Handgun	14	14
Rifle	1	1
Shotgun	1	1
TOTAL CHILD SUICIDE DEATHS	32	39

UNDETERMINED CHILD DEATHS (N=98)

Ninety-eight undetermined deaths of children occurred in 2019; a decrease of 11.7% compared to 2018, and representing 32.6% of all child deaths that occurred in 2019.

- Infants <1 year old accounted for 92.9% of undetermined deaths
- Sudden unexpected infant death (SUID) deaths of infants <1 year of age represented 71.4% of all undetermined child deaths

Figure 3.28 Number and Rate of Undetermined Child Deaths by Year, 2006-2019



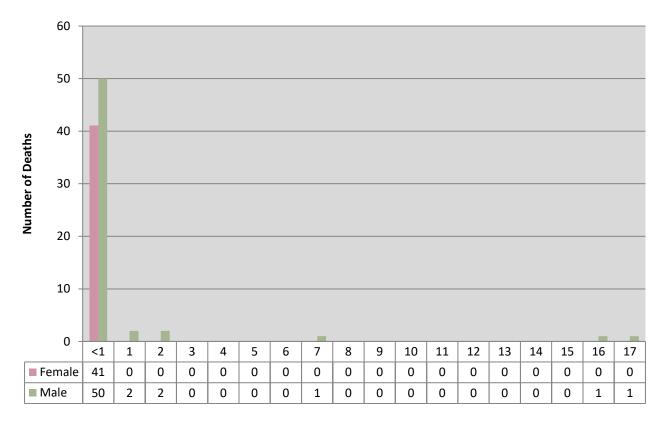
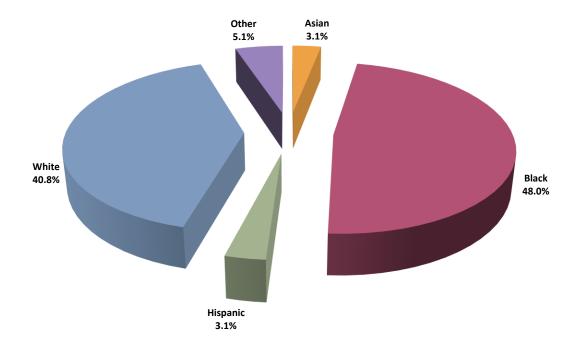


Figure 3.29 Number of Undetermined Child Deaths by Age and Gender, 2019

Figure 3.30 Percentage of Undetermined Child Deaths by Race/Ethnicity, 2019



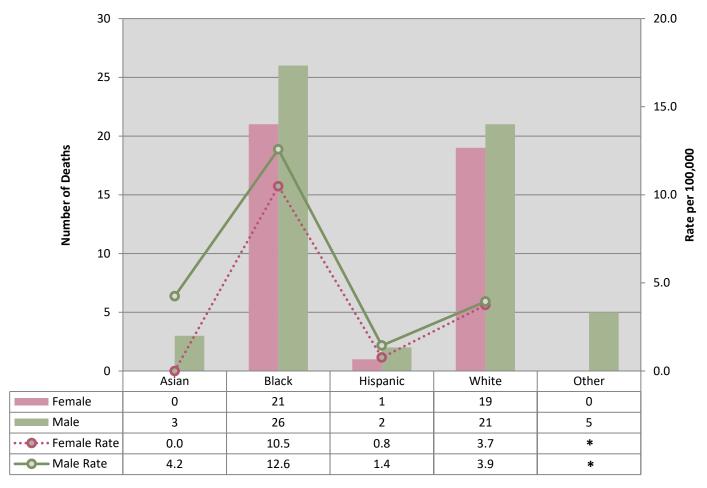


Figure 3.31 Number and Rate of Undetermined Child Deaths by Gender and Race/Ethnicity, 2019

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Asian males and Hispanics)

^{*}No rate can be calculated

Table 3.5 Number of Undetermined Child Deaths by Cause and Method of Death, 2019

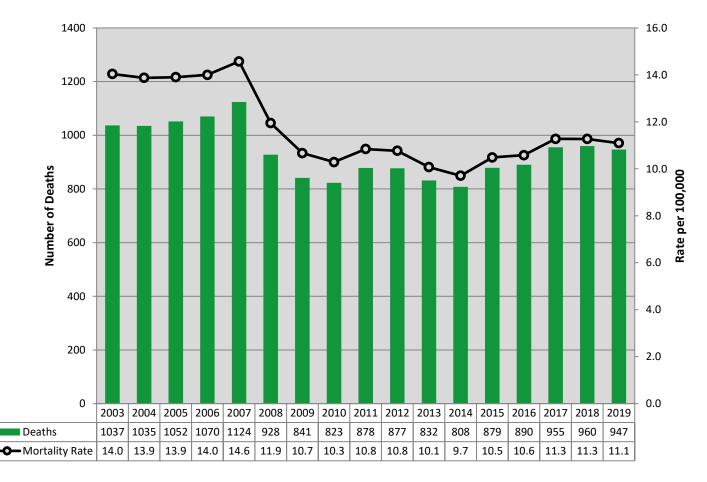
Determined Cause and Method of Death	Autopsied	Total Cases
Asphyxia		
Drowned	1	1
Suffocated/Smothered	3	3
Drug Use		
Ingested and/or injected illicit, prescription, and/or other type of drug	1	1
Gunshot		
Handgun	1	1
Other Unnatural		
Other	7	7
Subtotal for Determined Cause and Method of Death	13	13
Undetermined Cause and Method of Death	Autopsied	Total Cases
Undetermined Manner and Cause of Death		
Sudden Unexpected Infant Death (SUID)	70	70
Other or undetermined after autopsy and/or toxicology	15	15
Subtotal for Undetermined Manner and Cause of Death	85	85
TOTAL UNDETERMINED CHILD DEATHS	98	98

SECTION 4: MOTOR VEHICLE FATALITIES (N=947)

The OCME investigated 947 motor vehicle collision-related deaths in 2019, which was a slight decrease compared to 2018 (1.4%).

- The vast majority of cases were accidents (96.8%) and victims were most often male (72.9%)
- Of the 728 (76.9%) motor vehicle fatalities tested for ethanol, 20.5% (n=149) had a blood alcohol
 concentration greater than or equal to 0.08%; of those 149 decedents who were at or above the legal
 limit of alcohol, 79.2% were drivers
- Persons aged 55-64 years old had more deaths (17.2%) due to motor vehicle incidents than any other
 age group, but males 85+ years had the highest rate of death (34.7 deaths per 100,000)
- Black males had the highest rate of fatal motor vehicle collisions (23.9 per 100.000)
- Eighteen children under the age of 15 years died in motor vehicle-related incidents

Figure 4.1 Number and Rate of Motor Vehicle Deaths by Year, 2003-2019



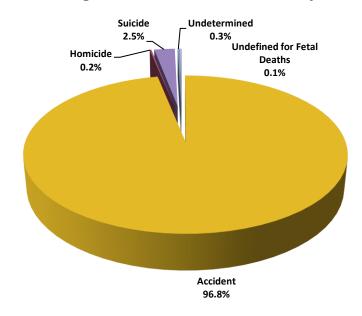


Figure 4.2 Percentage of Motor Vehicle Deaths by Manner, 2019

* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2019, the OCME accepted eight fetal deaths under OCME jurisdiction of the 3,970 total fetal deaths reported to Vital Records

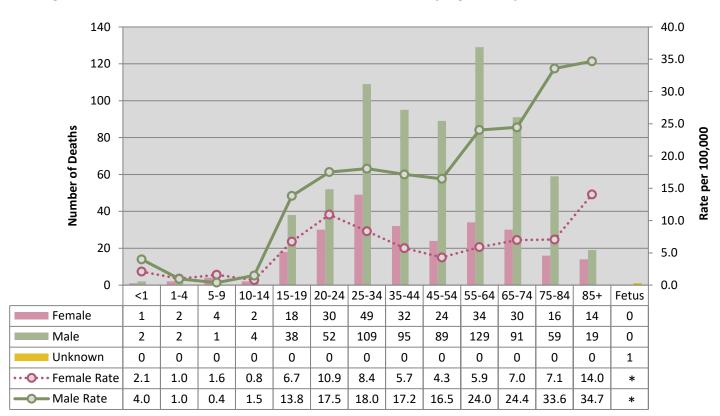


Figure 4.3 Number and Rate of Motor Vehicle Deaths by Age Group and Gender, 2019

^{*} No rate can be calculated

^{* * *} Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2019, the OCME accepted eight fetal deaths under OCME jurisdiction of the 3,970 total fetal deaths reported to Vital Records

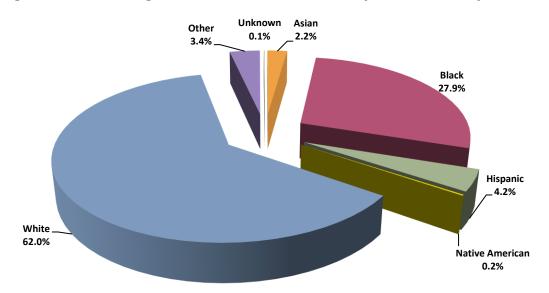
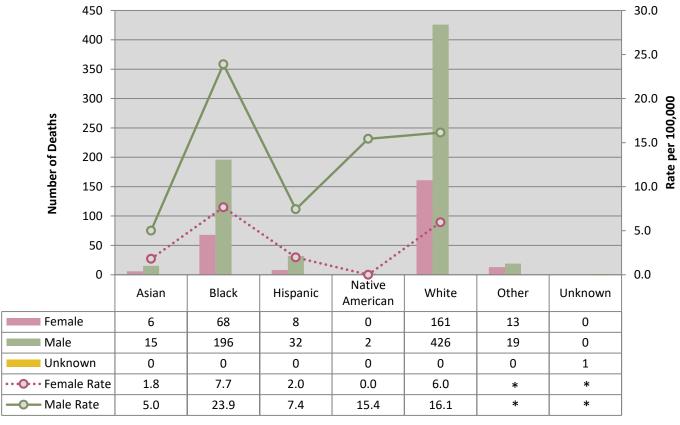


Figure 4.4 Percentage of Motor Vehicle Deaths by Race/Ethnicity, 2019

Figure 4.5 Number and Rate of Motor Vehicle Deaths by Race/Ethnicity and Gender, 2019



^{*}No rate can be calculated

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Native American males)

Figure 4.6 Percentage of Motor Vehicle Deaths by Ethanol Amount (N=728), 2019

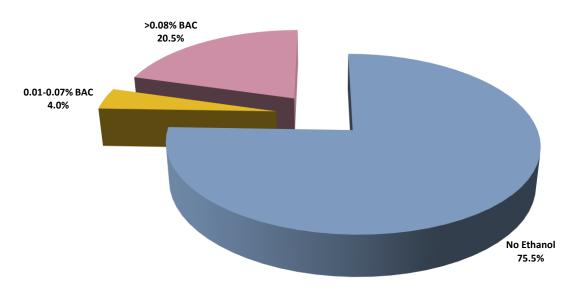
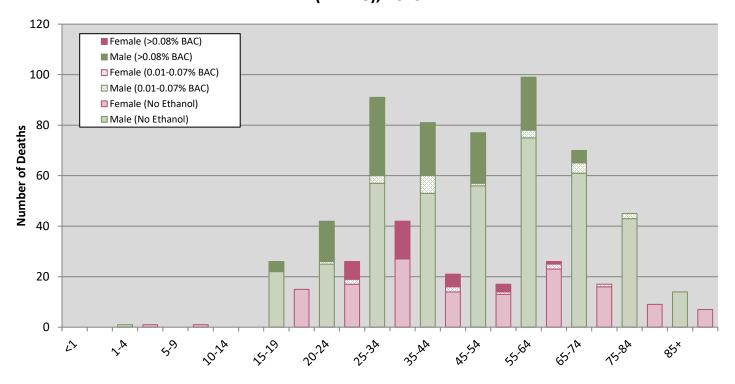


Figure 4.7 Number of Motor Vehicle Deaths by Age Group, Gender, and Ethanol Amount (N=728), 2019



400 Asian 348 ■ Black 350 ■ Hispanic Native American 300 White Other **Number of Deaths** 250 200 143 150 100 40 50 21 21 15 17 3 5 2 0 No Ethanol 0.01-0.07% BAC >0.08% BAC

Figure 4.8 Number of Motor Vehicle Deaths by Ethanol Level and Race/Ethnicity (N=728), 2019

Table 4.1 Number of Motor Vehicle Deaths by Age Group and Position during Collision, 2019

Age Group (years)	Driver	Passenger Cargo	Passenger Front	Passenger Other	Passenger Rear	Pedestrian	Unknown	TOTAL
<1	0	0	1	1	1	0	0	3
1-4	0	0	0	0	0	4	0	4
5-9	0	0	0	0	5	0	0	5
10-14	1	0	3	1	1	0	0	6
15-19	27	1	12	2	7	7	0	56
20-24	54	0	10	1	5	12	0	82
25-34	108	1	16	2	6	20	5	158
35-44	86	0	9	2	4	26	0	127
45-54	76	0	6	1	6	23	1	113
55-64	112	0	7	1	2	39	2	163
65-74	78	0	12	1	3	25	2	121
75-84	53	0	7	0	4	10	1	75
85+	19	0	6	0	2	6	0	33
Fetus	0	0	0	1	0	0	0	1
TOTAL	614	2	89	13	46	172	11	947

^{*} Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2019, the OCME accepted eight fetal deaths under OCME jurisdiction of the 3,970 total fetal deaths reported to Vital Records

Figure 4.9 Number of Motor Vehicle Deaths by Position during Collision and Ethanol Level (N=728), 2019

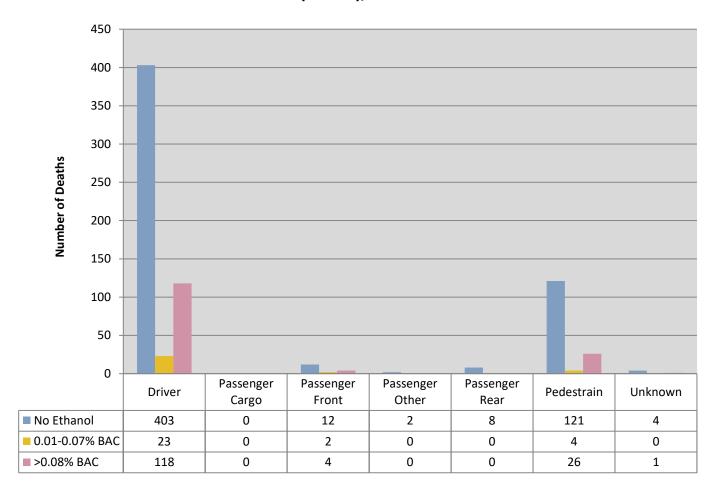


Table 4.2 Number of Motor Vehicle Deaths by Position during Collision, Vehicle Type, and Ethanol Level (N=728), 2019

Position During Collision	Vehicle Type	No Ethanol	0.01-0.07% BAC	>0.08% BAC	Total
	All Terrain Vehicle	5	0	4	9
	Bicycle	6	0	1	7
	Boat	2	0	0	2
	Bus	1	0	0	1
	Car	187	16	46	249
	Construction Heavy Equipment	1	0	0	1
	Dump Truck	2	0	0	2
	Farm Equipment	1	0	0	1
	Golf Cart	1	0	0	1
	Lawnmower	1	0	0	1
Driver	Mo-ped	10	0	2	12
	Motorcycle	62	2	21	85
	Motorized Parachute	1	0	0	1
	Pickup Truck	35	2	24	61
	Sport Utility Vehicle	57	2	17	76
	Tractor Trailer	11	0	0	11
	Truck Other	7	0	1	8
	Van	10	1	2	13
	Unknown	3	0	0	3
	Subtotal	403	23	118	544
	Car	5	1	2	8
	Pickup Truck	4	0	1	5
Passenger Front	Sport Utility Vehicle	1	1	1	3
	Van	2	0	0	2
	Subtotal	12	2	4	18
	Motorcycle	1	0	0	1
Passenger Other	Sport Utility Vehicle	1	0	0	1
	Subtotal	2	0	0	2
	Car	3	0	0	3
	Motorcycle	1	0	0	1
Passenger Rear	Pickup Truck	2	0	0	2
	Van	2	0	0	2
	Subtotal	8	0	0	8
	Bicycle	1	0	0	1
Pedestrian	Bus	1	0	0	1
i cacstrian	Car	36	1	9	46
	Construction Heavy Equipment	1	0	0	1

	Motorcycle	1	0	0	1
	Multiple	1	1	0	2
	Pickup Truck	18	0	2	20
	Sport Utility Vehicle	23	1	9	33
	Tractor Trailer	7	1	0	8
	Train	14	0	3	17
	Truck Other	4	0	0	4
	Van	6	0	0	6
	Unknown	8	0	3	11
	Subtotal	121	4	26	151
	Car	0	0	1	1
Unknown	Van	1	0	0	1
Uliknown	Unknown	3	0	0	3
	Subtotal	4	0	1	5

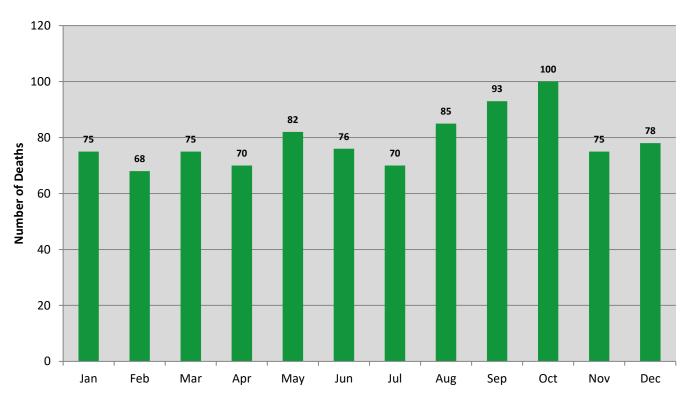


Figure 4.10 Number of OCME Motor Vehicle Fatalities by Month of Death, 2019

Figure 4.11 Number of OCME Motor Vehicle Fatalities by Day of Week, 2019

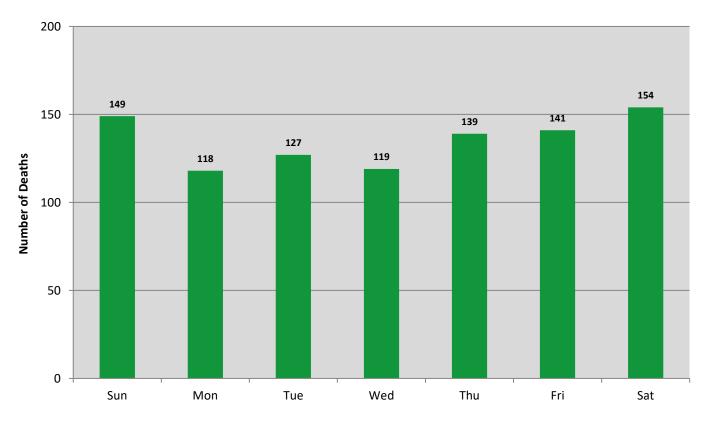


Table 4.3 Number and Rate of Motor Vehicle Deaths by Locality of Residence, 2019

Locality of Residence	Deaths	Rate
Accomack County	3	9.3
Albemarle County	9	8.2
Alexandria City	3	1.9
Alleghany County	0	0.0
Amelia County	3	22.8
Amherst County	4	12.7
Appomattox County	5	31.4
Arlington County	2	0.8
Augusta County	8	10.6
Bath County	0	0.0
Bedford County	13	16.5
Bland County	1	15.9
Botetourt County	3	9.0
Bristol City	1	6.0
Brunswick County	7	43.1
Buchanan County	3	14.3
Buckingham County	4	23.3
Buena Vista City	1	15.4
Campbell County	11	20.0
Caroline County	5	16.3
Carroll County	1	3.4
Charles City County	2	28.7
Charlotte County	5	42.1
Charlottesville City	5	10.6
Chesapeake City	16	6.5
Chesterfield County	32	9.1
Clarke County	4	27.4
Colonial Heights City	2	11.5
Covington City	0	0.0
Craig County	1	19.5
Culpeper County	6	11.4
Cumberland County	2	20.1
Danville City	7	17.5
Dickenson County	4	27.9
Dinwiddie County	7	24.5
Emporia City	0	0.0
Essex County	5	45.6
Fairfax City	2	8.3
Fairfax County	43	3.7

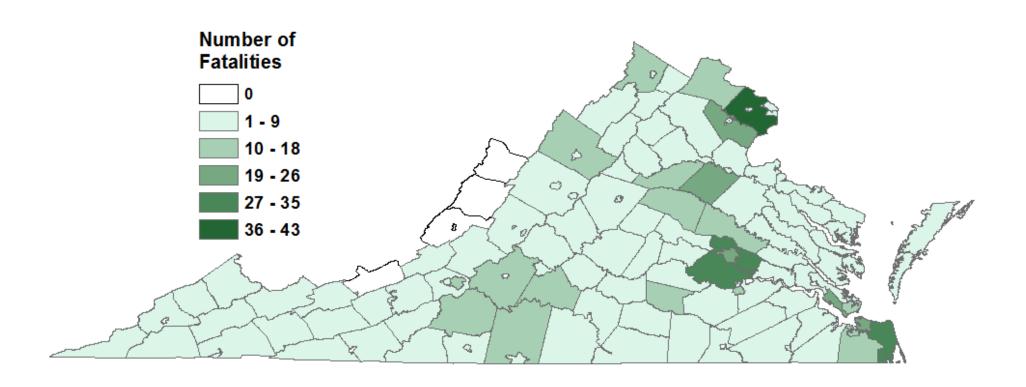
Locality of Residence	Deaths	Rate
Falls Church City	0	0.0
Fauquier County	8	11.2
Floyd County	2	12.7
Fluvanna County	4	14.7
Franklin City	1	12.6
Franklin County	12	21.4
Frederick County	10	11.2
Fredericksburg City	2	6.9
Galax City	0	0.0
Giles County	0	0.0
Gloucester County	2	5.4
Goochland County	4	16.8
Grayson County	2	12.9
Greene County	3	15.1
Greensville County	3	26.5
Halifax County	7	20.6
Hampton City	11	8.2
Hanover County	12	11.1
Harrisonburg City	3	5.7
Henrico County	31	9.4
Henry County	9	17.8
Highland County	0	0.0
Hopewell City	0	0.0
Isle of Wight County	8	21.6
James City County	4	5.2
King and Queen County	3	42.7
King George County	4	14.9
King William County	2	11.7
Lancaster County	3	28.3
Lee County	3	12.8
Lexington City	1	13.4
Loudoun County	14	3.4
Louisa County	11	29.3
Lunenburg County	5	41.0
Lynchburg City	8	9.7
Madison County	5	37.7
Manassas City	4	9.7
Manassas Park City	3	17.2
Martinsville City	6	47.8

Locality of Residence	Deaths	Rate
Mathews County	1	11.3
Mecklenburg County	8	26.2
Middlesex County	1	9.5
Montgomery County	7	7.1
Nelson County	3	20.1
New Kent County	3	13.0
Newport News City	20	11.2
Norfolk City	20	8.2
Northampton County	2	17.1
Northumberland County	3	24.8
Norton City	0	0.0
Nottoway County	10	65.7
Orange County	13	35.1
Page County	2	8.4
Patrick County	3	17.0
Petersburg City	10	31.9
Pittsylvania County	10	16.6
Poquoson City	2	16.3
Portsmouth City	16	16.9
Powhatan County	1	3.4
Prince Edward County	8	35.1
Prince George County	4	10.4
Prince William County	22	4.7
Pulaski County	4	11.8
Radford City	2	11.0
Rappahannock County	3	40.7
Richmond City	19	8.2
Richmond County	3	33.2
Roanoke City	13	13.1
Roanoke County	8	8.5
Rockbridge County	5	22.2
Rockingham County	16	19.5
Russell County	6	22.6
Salem City	2	7.9
Scott County	3	13.9
Shenandoah County	1	2.3
Smyth County	3	10.0
Southampton County	7	39.7
Spotsylvania County	21	15.4
Stafford County	5	3.3
Staunton City	4	16.0
- Country		10.0

Locality of Residence	Deaths	Rate
Suffolk City	7	7.6
Surry County	4	62.3
Sussex County	6	53.8
Tazewell County	6	14.8
Virginia Beach City	33	7.3
Warren County	4	10.0
Washington County	2	3.7
Waynesboro City	2	8.8
Westmoreland County	2	11.1
Williamsburg City	0	0.0
Winchester City	2	7.1
Wise County	4	10.7
Wythe County	3	10.5
York County	6	8.8
Subtotal (in-state)	815	9.5
Out of State	126	ND
Unknown	6	ND
Subtotal (out-of-state)	132	ND
TOTAL	947	11.1

Note: No denominator is represented by ND

Map 4.1 Number of Motor Vehicle Fatalities by Locality of Residence, 2019



Map 4.2 Rate of Motor Vehicle Fatalities by Locality of Residence, 2019

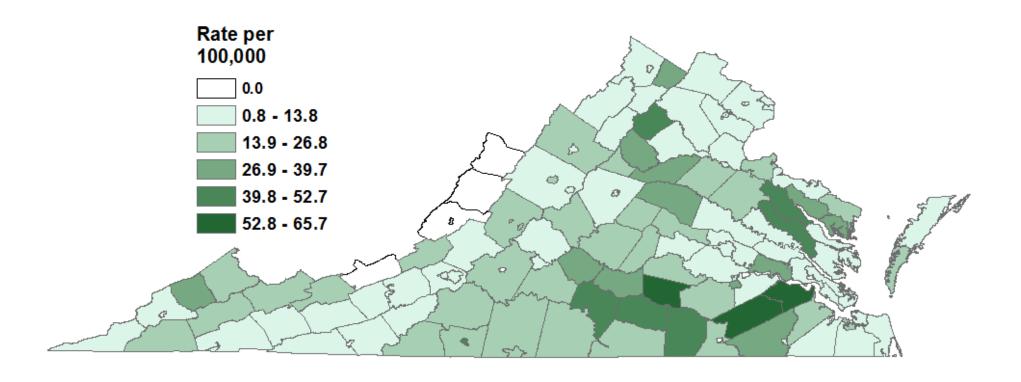


Table 4.4 Number and Rate of Motor Vehicle Deaths by Locality of Injury, 2019

Locality of Injury	Deaths	Rate
Accomack County	5	15.5
Albemarle County	18	16.5
Alexandria City	5	3.1
Alleghany County	0	0.0
Amelia County	2	15.2
Amherst County	4	12.7
Appomattox County	6	37.7
Arlington County	4	1.7
Augusta County	16	21.2
Bath County	1	24.1
Bedford County	15	19.0
Bland County	1	15.9
Botetourt County	4	12.0
Bristol City	2	11.9
Brunswick County	5	30.8
Buchanan County	5	23.8
Buckingham County	5	29.2
Buena Vista City	0	0.0
Campbell County	12	21.9
Caroline County	7	22.8
Carroll County	4	13.4
Charles City County	2	28.7
Charlotte County	4	33.7
Charlottesville City	2	4.2
Chesapeake City	18	7.4
Chesterfield County	35	9.9
Clarke County	5	34.2
Colonial Heights City	1	5.8
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	11	20.9
Cumberland County	2	20.1
Danville City	6	15.0
Dickenson County	3	21.0
Dinwiddie County	14	49.0
Emporia City	3	56.1
Essex County	2	18.3
Fairfax City	2	8.3
Fairfax County	49	4.3
Falls Church City	1	6.8
Fauquier County	12	16.8
Floyd County	2	12.7
Fluvanna County	1	3.7

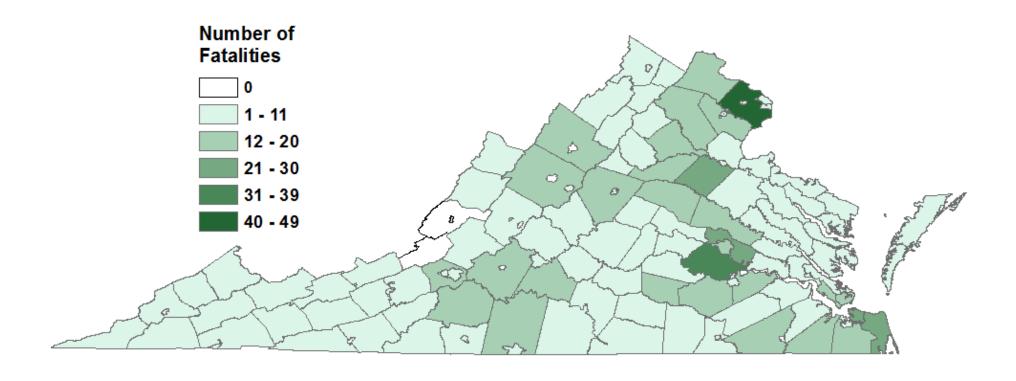
Locality of Injury	Deaths	Rate
Franklin City	0	0.0
Franklin County	15	26.8
Frederick County	9	10.1
Fredericksburg City	1	3.4
Galax City	0	0.0
Giles County	1	6.0
Gloucester County	3	8.0
Goochland County	7	29.5
Grayson County	1	6.4
Greene County	3	15.1
Greensville County	4	35.3
Halifax County	8	23.6
Hampton City	13	9.7
Hanover County	18	16.7
Harrisonburg City	0	0.0
Henrico County	29	8.8
Henry County	8	15.8
Highland County	1	45.7
Hopewell City	0	0.0
Isle of Wight County	10	26.9
James City County	2	2.6
King and Queen County	3	42.7
King George County	3	11.2
King William County	2	11.7
Lancaster County	3	28.3
Lee County	3	12.8
Lexington City	0	0.0
Loudoun County	14	3.4
Louisa County	13	34.6
Lunenburg County	4	32.8
Lynchburg City	4	4.9
Madison County	2	15.1
Manassas City	2	4.9
Manassas Park City	0	0.0
Martinsville City	3	23.9
Mathews County	1	11.3
Mecklenburg County	8	26.2
Middlesex County	3	28.4
Montgomery County	8	8.1
Nelson County	4	26.8
New Kent County	5	21.7
Newport News City	19	10.6
Norfolk City	26	10.7

Locality of Injury	Deaths	Rate
Northampton County	2	17.1
Northumberland County	4	33.1
Norton City	0	0.0
Nottoway County	11	72.2
Orange County	12	32.4
Page County	7	29.3
Patrick County	2	11.4
Petersburg City	6	19.1
Pittsylvania County	15	24.9
Poquoson City	1	8.1
Portsmouth City	10	10.6
Powhatan County	2	6.7
Prince Edward County	7	30.7
Prince George County	11	28.7
Prince William County	17	3.6
Pulaski County	7	20.6
Radford City	2	11.0
Rappahannock County	2	27.1
Richmond City	19	8.2
Richmond County	5	55.4
Roanoke City	7	7.1
Roanoke County	12	12.7
Rockbridge County	8	35.4
Rockingham County	18	22.0
Russell County	6	22.6
Salem City	5	19.8
Scott County	6	27.8
Shenandoah County	5	11.5

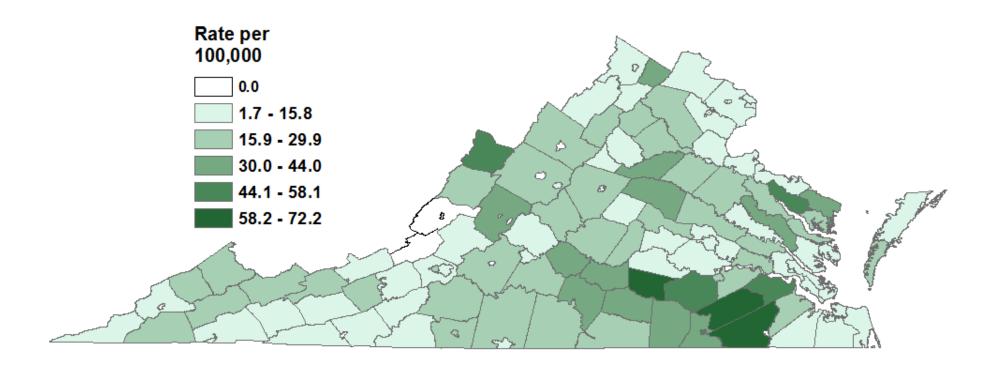
Locality of Injury	Deaths	Rate
Smyth County	3	10.0
Southampton County	11	62.4
Spotsylvania County	27	19.8
Stafford County	9	5.9
Staunton City	0	0.0
Suffolk City	11	11.9
Surry County	3	46.7
Sussex County	8	71.7
Tazewell County	7	17.2
Virginia Beach City	26	5.8
Warren County	4	10.0
Washington County	3	5.6
Waynesboro City	3	13.3
Westmoreland County	1	5.6
Williamsburg City	1	6.7
Winchester City	1	3.6
Wise County	3	8.0
Wythe County	4	13.9
York County	9	13.2
Subtotal (in-state)	902	10.6
Out of State	38	ND
Unknown	7	ND
Subtotal (out-of-state)	45	ND
TOTAL	947	11.1

Note: No denominator is represented by ND

Map 4.3 Number of Motor Vehicle Fatalities by Locality of Injury, 2019



Map 4.4 Rate of Motor Vehicle Fatalities by Locality of Injury, 2019



SECTION 5: DRUG/POISON DEATHS (N=1,627)

ALL DRUG/POISON DEATHS (N=1,627)

The number of fatal drug overdoses in 2019 increased 9.5% compared to 2018. The number of fatal drug overdoses in 2019 was also the largest number ever seen in Virginia.

- The 2019 rate of drug/poison deaths that occurred in Virginia was 19.1 per 100,000 persons
- The majority were accidents (91.9%), male (64.8%), Whites (73.9%), and 25-34 year olds (26.1%)
- Illicit opioids like heroin and illicit fentanyl have the highest mortality rates in urban localities like Central and Eastern Virginia, whereas prescription opioids have the highest mortality rates in rural areas of the state like the Western region of Virginia
- Black males followed closely by White males had the highest rates of fatal overdoses, all substances in 2019 (30.5 and 28.1 per 100,000, respectively)

Figure 5.1 Number and Rate of Fatal Drug/Poison Overdoses by Year of Death, 1999-2019

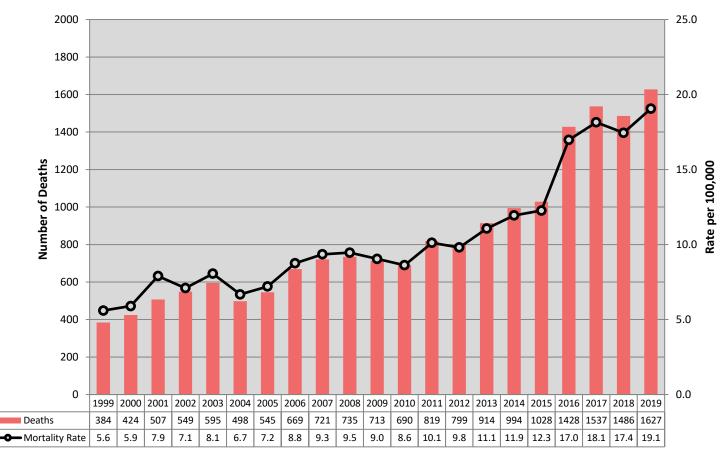


Table 5.1 Number and Percentage of Fatal Drug/Poison Overdoses by OCME District, 2019

OCME District	Number	Percentage
Central	527	32.4%
Northern	394	24.2%
Tidewater	346	21.3%
Western	360	22.1%
TOTAL	1627	100.0%

Figure 5.2 Percentage of Fatal Drug/Poison Overdoses by Manner of Death, 2019

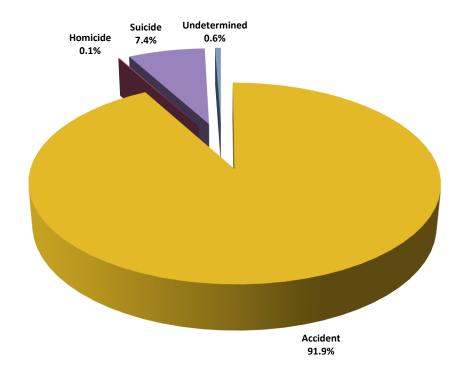


Figure 5.3 Number and Rate of Fatal Drug/Poison Overdoses by Age Group and Gender, 2019

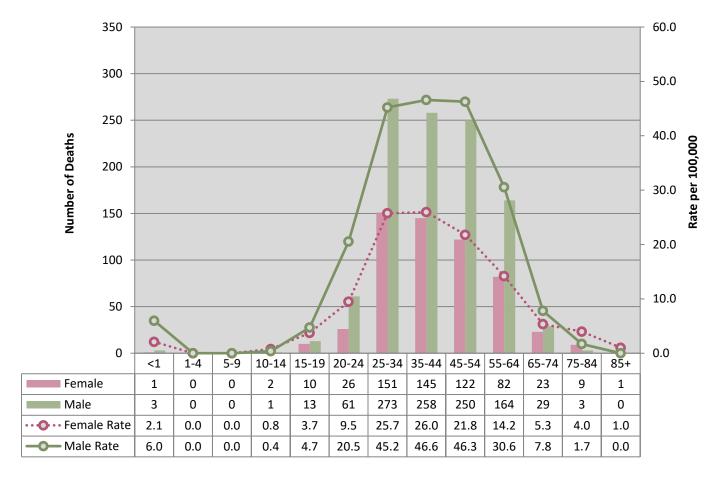


Table 5.2 Number of Fatal Drug/Poison Overdoses by Age Group and Manner of Death, 2019

Age Group (years)	Accident	Homicide	Suicide	Undetermined	Total
<1	1	2	0	1	4
1-4	0	0	0	0	0
5-9	0	0	0	0	0
10-14	0	0	3	0	3
15-19	18	0	4	1	23
20-24	84	0	1	2	87
25-34	409	0	14	1	424
35-44	379	0	24	0	403
45-54	342	0	27	3	372
55-64	220	0	25	1	246
65-74	40	0	12	0	52
75-84	3	0	9	0	12
85+	0	0	1	0	1
Total	1496	2	120	9	1627

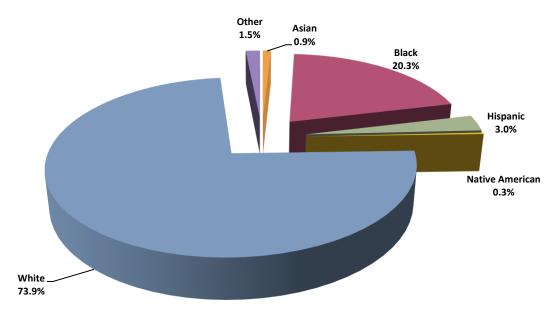
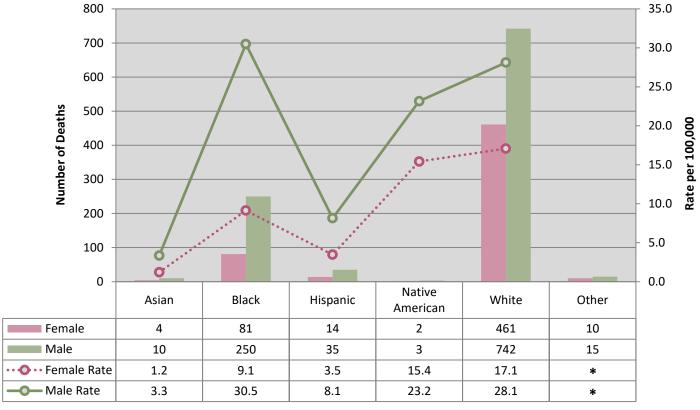


Figure 5.4 Percentage of Fatal Drug/Poison Overdoses by Race/Ethnicity, 2019

Figure 5.5 Number and Rate of Fatal Drug/Poison Overdoses by Race/Ethnicity and Gender, 2019



^{*}No rate can be calculated

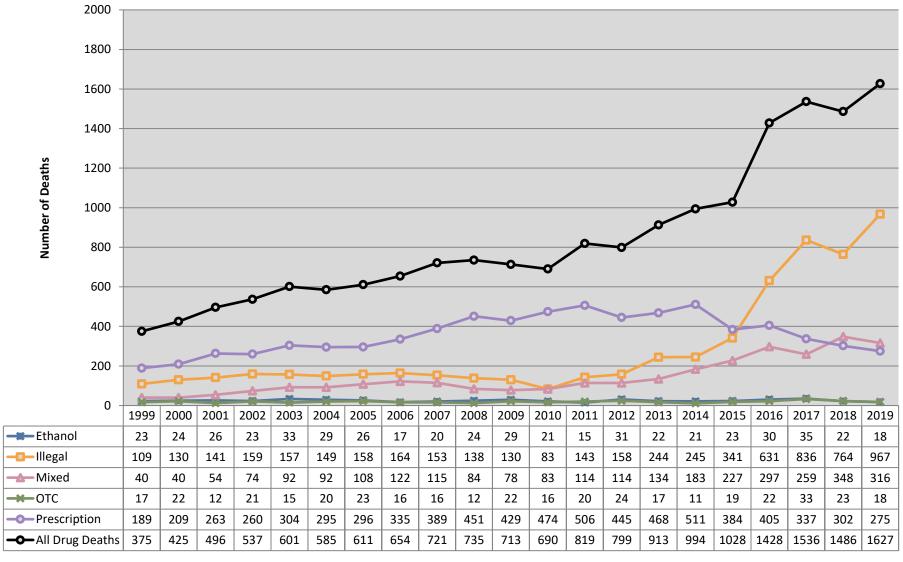
Table 5.3 Number of Fatal Drug/Poison Overdoses by OCME District and Cause of Death, 2019

Cause of Death	Central	Northern	Tidewater	Western	Total
Illegal (street) drug poisoning	307	247	200	213	967
Mixed drug category	134	83	58	41	316
Prescription drug poisoning	67	46	71	91	275
Ethanol poisoning	9	4	3	2	18
Over the counter drug poisoning	8	5	3	2	18
Inhalant poisoning	1	4	4	7	16
Drug type not specified	1	1	4	1	7
Other poisons (heavy metals, etc.)	0	3	1	2	6
Ethylene glycol poisoning	0	1	2	1	4
Total	527	394	346	360	1627

Table 5.4 Number of Fatal Drug/Poison Overdoses Manner and Cause of Death, 2019

Cause of Death	Accident	Homicide	Suicide	Undetermined	Total
Illegal (street) drug poisoning	958	1	4	4	967
Mixed drug category	302	1	12	1	316
Prescription drug poisoning	189	0	82	4	275
Ethanol poisoning	18	0	0	0	18
Over the counter drug poisoning	5	0	13	0	18
Inhalant poisoning	16	0	0	0	16
Drug type not specified	6	0	1	0	7
Other poisons (heavy metals, etc.)	2	0	4	0	6
Ethylene glycol poisoning	0	0	4	0	4
Total	1496	2	120	9	1627

Figure 5.6 Number of Fatal Drug/Poison Overdoses by Drug Category and Year of Death, 1999-2019



Note: all other categories of fatal drug overdose were excluded from this analysis because of low annual case counts (<20 deaths)

Figure 5.7 Number of Fatal Drug/Poison Overdoses by Drug Category and Gender, 2019

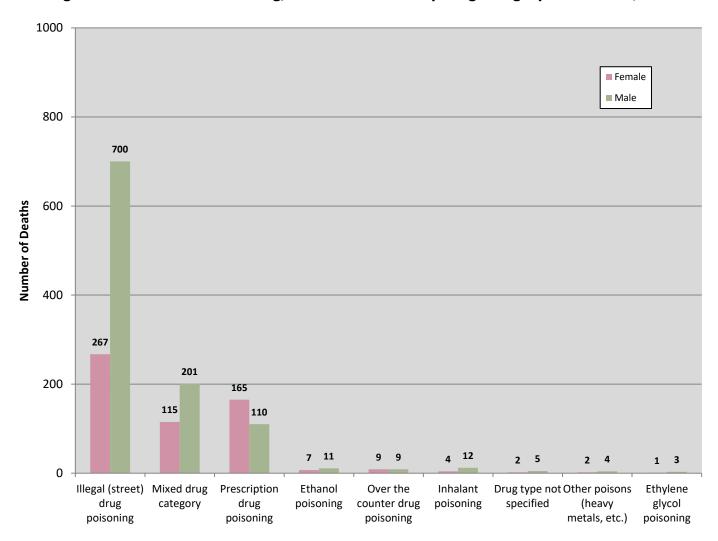
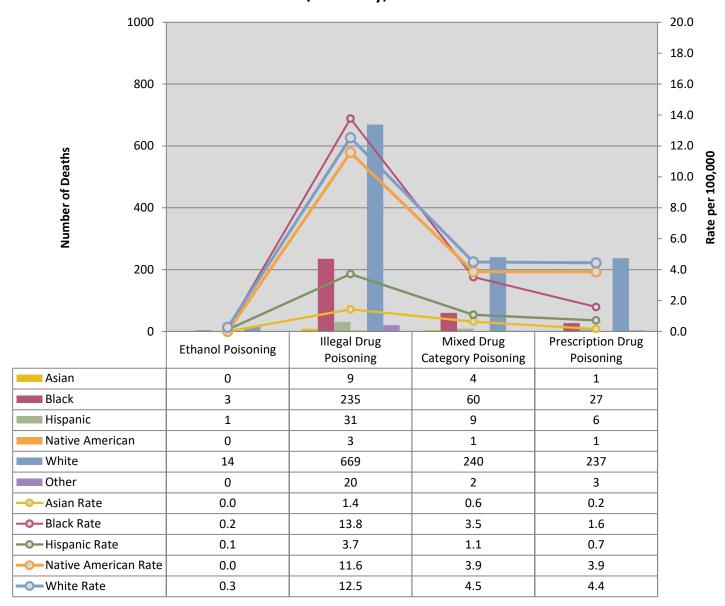


Figure 5.8 Number and Rate of Fatal Drug/Poison Overdoses by Drug Category and Race/Ethnicity, 2019



1000 ■ No Ethanol ■ 0.01-0.07% BAC 792 ■>0.08% BAC 800 **Number of Deaths** 600 400 253 232 200 82 ⁹³ 35 28 18 25 ¹⁶ 0 0 8 0 10 ¹⁴ ₂ ₂ 6 1 0 6 0 0 4 0 0 Illegal Mixed drug Prescription Ethanol Over the Inhalant Drug type Other Ethylene (street) drug category drug poisoning counter drug poisoning not specified poisons glycol poisoning poisoning poisoning (heavy poisoning metals, etc.)

Figure 5.9 Number of Fatal Drug/Poison Overdoses by Drug Category and Ethanol Level, 2019

Note: Ethanol poisoning deaths listed as 'no ethanol' detected or '0.01-0.07% BAC' were due to toxicology timing issues regarding metabolization of ethanol

Table 5.5 Number of Fatal Drug/Poison Overdoses by Cause of Death and Whether Alcohol Caused

Death, 2019

Cause of Death	Caused Death	Contributed to Death	Did Not Cause Death	Total
Illegal (street) drug poisoning	103	64	800	967
Mixed drug category	46	6	264	316
Prescription drug poisoning	26	11	238	275
Ethanol poisoning	14	0	4	18
Over the counter drug poisoning	1	3	14	18
Inhalant poisoning	0	0	16	16
Drug type not specified	0	0	7	7
Other poisons (heavy metals, etc.)	0	0	6	6
Ethylene glycol poisoning	0	0	4	4
Total	190	84	1353	1627

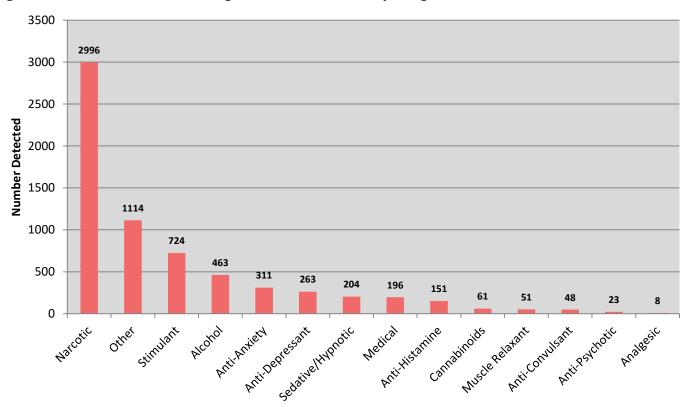


Figure 5.10 Number of Fatal Drug/Poison Overdoses by Drug/Poison/Metabolites Detected, 2019

Table 5.6 Number and Percentage of Fatal Drug/Poison Overdoses by Drug/Poison/Metabolite Detected, 2019

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
Alcohol			7.0%
	1,4-butanediol	1	0.0%
	2-(2-butoxyethoxy)ethanol	1	0.0%
	Acetone	8	0.1%
	Ethanol	438	6.6%
	Isopropanol	10	0.2%
	Methanol	5	0.1%
Analgesi	c		0.1%
	Acetaminophen	5	0.1%
	Ibuprofen	3	0.0%
Anti-Anx	iety		4.7%
	Alprazolam	150	2.3%
	Diazepam	42	0.6%
	Etizolam	25	0.4%

Class	Drug/Poison/Active Metabolite	Number	Percentage of
Class		Detected	Cases
	Flualprazolam	1	0.0%
	Flubromazolam	1	0.0%
	Flurazepam	3	0.0%
	Lorazepam	16	0.2%
	Meprobamate	5	0.1%
	Nordiazepam (Diazepam Metabolite)	68	1.0%
Anti-Con	vulsant		0.7%
	Carbamazepine	6	0.1%
	Lamotrigine	9	0.1%
	Levetiracetam	14	0.2%
	Oxcarbazepine	1	0.0%
	Phenytoin	1	0.0%
	Primidone	1	0.0%
	Topiramate	15	0.2%
	Zonisamide	1	0.0%
Anti-Dep	ressant		4.0%
	Amitriptyline	37	0.6%
	Bupropion	39	0.6%
	Citalopram	50	0.8%
	Clomipramine	1	0.0%
	Desipramine	2	0.0%
	Doxepin	6	0.1%
	Fluoxetine	31	0.5%
	Imipramine	1	0.0%
	Mirtazapine	15	0.2%
	Nortriptyline	39	0.6%
	Paroxetine	4	0.1%
	Sertraline	25	0.4%
	Venlafaxine	13	0.2%
Anti-Hist	amine		2.3%
	Chlorpheniramine	6	0.1%
	Diphenhydramine	106	1.6%
	Doxylamine	16	0.2%
	Hydroxyzine	8	0.1%
	Promethazine	15	0.2%
Anti-Psyc	chotic		0.3%
	Aripiprazole	1	0.0%
	Clozapine	1	0.0%
	Olanzapine	5	0.1%
	Quetiapine	16	0.2%
Cannabir	· · · · · · · · · · · · · · · · · · ·		0.9%

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
	Tetrahydrocannabinol Carboxylic Acid (THC)-various		
	compounds	61	0.9%
Medical			3.0%
	Amlodipine	2	0.0%
	Atenolol	1	0.0%
	Benztropine	1	0.0%
	Butalbital	6	0.1%
	Canrenone (Spironolactone Metabolite)	1	0.0%
	Dextromethorphan	32	0.5%
	Diltiazem	3	0.0%
	Ephedrine/Pseudoephedrine	10	0.2%
	Etomidate	3	0.0%
	Flecainide	1	0.0%
	Furosemide	1	0.0%
	Gabapentin	92	1.4%
	Hydrochlorothiazide	1	0.0%
	Levamisole/Tetramisole	2	0.0%
	Loperamide	2	0.0%
	Melatonin	1	0.0%
	Methemoglobin	2	0.0%
	Metoclopramide	4	0.1%
	Metoprolol	1	0.0%
	Mexiletine	1	0.0%
	Naloxone	6	0.1%
	Ondansetron	1	0.0%
	Phentermine	3	0.0%
	Pregabalin	15	0.2%
	Propranolol	2	0.0%
	Verapamil	2	0.0%
Muscle R	•	_	0.8%
	Carisoprodol	4	0.1%
	Cyclobenzaprine	42	0.6%
	Metaxalone	1	0.0%
	Methocarbamol	2	0.0%
	Orphenadrine	1	0.0%
	Tizanidine	1	0.0%
Narcotic			45.3%
	6-Acetylmorphine	454	6.9%
	Acetylfentanyl	167	2.5%
	Buprenorphine	64	1.0%
	Butyryl Fentanyl	4	0.1%
	Carfentanil	2	0.0%

Class	Drug/Poison/Active Metabolite	Number	Percentage of
		Detected	Cases
	Codeine	228	3.4%
	Fentanyl	881	13.3%
	Hydrocodone	50	0.8%
	Hydromorphone	76	1.1%
	Meperidine	1	0.0%
	Methadone	78	1.2%
	Methoxyacetylfentanyl	2	0.0%
	Methylfentanyl	1	0.0%
	Morphine	593	9.0%
	Norbuprenorphine	60	0.9%
	Oxycodone	136	2.1%
	Oxymorphone	115	1.7%
	Para/Meta-Fluoroisobutyrylfentanyl	14	0.2%
	Tapentadol	2	0.0%
	Tramadol	61	0.9%
	Valerylfentanyl	7	0.1%
Other			16.8%
	4-Fluoro-Mdmb-Binaca	2	0.0%
	5-Fluoro-Mdmb-Pica	1	0.0%
	5F-Pb-22	1	0.0%
	Benzoylecgonine(Cocaine Metabolite)	476	7.2%
	Carboxyhemoglobin	1	0.0%
	Chloroethane	1	0.0%
	Cocaethylene	140	2.1%
	Cotinine	2	0.0%
	Despropionylfentanyl	420	6.4%
	Difluoroethane	14	0.2%
	Ethylene Glycol	3	0.0%
	Ketamine	10	0.2%
	Lidocaine	11	0.2%
	Mitragynine	19	0.3%
	Nitrous Oxide	1	0.0%
	Phencyclidine	10	0.2%
	Salicylate	1	0.0%
	Salicylic Acid	1	0.0%
C = d = ±!	,	1	3.1%
Sedative	e/Hypnotic	2	
	Butabarbital	2	0.0%
	Chlordiazepoxide	12	0.2%
	Clonazepam	65	1.0%
	Gamma-Hydroxybutyrate	1	0.0%
	Midazolam	12	0.2%
	Oxazepam	19	0.3%

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
	Pentobarbital	2	0.0%
	Phenobarbital	9	0.1%
	Temazepam	22	0.3%
	Trazodone	38	0.6%
	Xylazine	1	0.0%
	Zolpidem	17	0.3%
	Zopiclone	4	0.1%
Stimula	nt		10.9%
	3,4 Methylenedioxyamphetamine - MDA	7	0.1%
	Amphetamine	191	2.9%
	Caffeine	1	0.0%
	Cocaine	345	5.2%
	Eutylone	1	0.0%
	Guanfacine	1	0.0%
	Methamphetamine	177	2.7%
	Methylphenidate	1	0.0%
TOTAL D	RUG/POISON/ACTIVE METABOLITES DETECTED	6613	100.0%

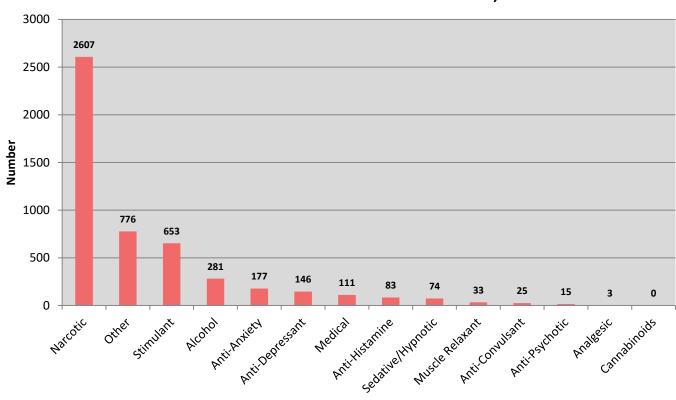


Figure 5.11 Number of Fatal Drug/Poison Overdoses by Class of Drug/Poison/Metabolite
Detected that Caused or Contributed to Death, 2019

Table 5.7 Number of Fatal Drug/Poison Deaths by Drug/Poison/Metabolites Detected that Caused or Contributed to Death, 2019

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
Alcohol			5.6%
	1,4-butanediol	1	0.0%
	2-(2-butoxyethoxy)ethanol	1	0.0%
	Acetone	3	0.1%
	Ethanol	274	5.5%
	Isopropanol	1	0.0%
	Methanol	1	0.0%
Analgesi	С		0.1%
	Acetaminophen	2	0.0%
	Ibuprofen	1	0.0%
Anti-Anx	iety		3.6%
	Alprazolam	95	1.9%
	Diazepam	21	0.4%

Class	Drug/Poison/Active Metabolite	Number	Percentage
Ciass		Detected	of Cases
	Etizolam	19	0.4%
	Flualprazolam	1	0.0%
	Flubromazolam	1	0.0%
	Flurazepam	1	0.0%
	Lorazepam	6	0.1%
	Meprobamate	5	0.1%
	Nordiazepam (Diazepam Metabolite)	28	0.6%
Anti-Cor	nvulsant		0.5%
	Carbamazepine	3	0.1%
	Lamotrigine	5	0.1%
	Levetiracetam	6	0.1%
	Oxcarbazepine	1	0.0%
	Phenytoin	0	0.0%
	Primidone	1	0.0%
	Topiramate	8	0.2%
	Zonisamide	1	0.0%
Anti-De	pressant		2.9%
	Amitriptyline	25	0.5%
	Bupropion	25	0.5%
	Citalopram	19	0.4%
	Clomipramine	0	0.0%
	Desipramine	1	0.0%
	Doxepin	3	0.1%
	Fluoxetine	17	0.3%
	Imipramine	1	0.0%
	Mirtazapine	7	0.1%
	Nortriptyline	22	0.4%
	Paroxetine	3	0.1%
	Sertraline	16	0.3%
	Venlafaxine	7	0.1%
Anti-His	tamine		1.7%
	Chlorpheniramine	3	0.1%
	Diphenhydramine	57	1.1%
	Doxylamine	12	0.2%
	Hydroxyzine	5	0.1%
	Promethazine	6	0.1%
Anti-Psy	chotic		0.3%
	Aripiprazole	1	0.0%
	Clozapine	0	0.0%
	Olanzapine	1	0.0%
	Quetiapine	13	0.3%

Class	Drug/Poison/Active Metabolite	Number	Percentage
		Detected	of Cases
Cannabi			0.0%
	Tetrahydrocannabinol Carboxylic Acid (THC)-various compounds	0	0.0%
	compounds	0	2.2%
Medical			
	Amlodipine	2	0.0%
	Atenolol	1	0.0%
	Benztropine	0	0.0%
	Butalbital	4	0.1%
	Canrenone (Spironolactone Metabolite)	0	0.0%
	Dextromethorphan	17	0.3%
	Diltiazem	2	0.0%
	Ephedrine/Pseudoephedrine	4	0.1%
	Etomidate	0	0.0%
	Flecainide	1	0.0%
	Furosemide	0	0.0%
	Gabapentin	60	1.2%
	Hydrochlorothiazide	0	0.0%
	Levamisole/Tetramisole	0	0.0%
	Loperamide	2	0.0%
	Melatonin	0	0.0%
	Methemoglobin	2	0.0%
	Metoclopramide	0	0.0%
	Metoprolol	1	0.0%
	Mexiletine	1	0.0%
	Naloxone	0	0.0%
	Ondansetron	0	0.0%
	Phentermine	2	0.0%
	Pregabalin	10	0.2%
	Propranolol	1	0.0%
	Verapamil	1	0.0%
Muscle F	Relaxant		0.7%
	Carisoprodol	4	0.1%
	Cyclobenzaprine	26	0.5%
	Metaxalone	1	0.0%
	Methocarbamol	2	0.0%
	Orphenadrine	0	0.0%
	Tizanidine	0	0.0%
Narcotic			52.3%
	6-Acetylmorphine	436	8.7%
	Acetylfentanyl	163	3.3%
	Buprenorphine	44	0.9%

Class	Drug/Poison/Active Metabolite	Number	Percentage
Class		Detected	of Cases
	Butyryl Fentanyl	4	0.1%
	Carfentanil	2	0.0%
	Codeine	95	1.9%
	Fentanyl	864	17.3%
	Hydrocodone	31	0.6%
	Hydromorphone	39	0.8%
	Meperidine	1	0.0%
	Methadone	76	1.5%
	Methoxyacetylfentanyl	2	0.0%
	Methylfentanyl	1	0.0%
	Morphine	571	11.5%
	Norbuprenorphine	38	0.8%
	Oxycodone	117	2.3%
	Oxymorphone	69	1.4%
	Para/Meta-Fluoroisobutyrylfentanyl	13	0.3%
	Tapentadol	1	0.0%
	Tramadol	34	0.7%
	Valerylfentanyl	6	0.1%
Other			15.6%
	4-Fluoro-Mdmb-Binaca	2	0.0%
	5-Fluoro-Mdmb-Pica	1	0.0%
	5F-Pb-22	1	0.0%
	Benzoylecgonine(Cocaine Metabolite)	230	4.6%
	Carboxyhemoglobin	0	0.0%
	Chloroethane	1	0.0%
	Cocaethylene	110	2.2%
	Cotinine	0	0.0%
	Despropionylfentanyl	381	7.6%
	Difluoroethane	14	0.3%
	Ethylene Glycol	3	0.1%
	Ketamine	6	0.1%
	Lidocaine	1	0.0%
	Mitragynine	18	0.4%
	Nitrous Oxide	1	0.0%
	Phencyclidine	7	0.1%
	Salicylate	0	0.0%
	Salicylic Acid	0	0.0%
Sedative	e/Hypnotic	_	1.5%
Jedanive	Butabarbital	0	0.0%
	Chlordiazepoxide	7	0.1%
	Clonazepam	7	0.1%
	Gamma-Hydroxybutyrate	1	0.0%

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
	Midazolam	0	0.0%
	Oxazepam	7	0.1%
	Pentobarbital	2	0.0%
	Phenobarbital	4	0.1%
	Temazepam	9	0.2%
	Trazodone	22	0.4%
	Xylazine	1	0.0%
	Zolpidem	10	0.2%
	Zopiclone	4	0.1%
Stimular	nt		13.1%
	3,4 Methylenedioxyamphetamine - Mda	6	0.1%
	Amphetamine	134	2.7%
	Caffeine	0	0.0%
	Cocaine	337	6.8%
	Eutylone	1	0.0%
	Guanfacine	1	0.0%
	Methamphetamine	173	3.5%
	Methylphenidate	1	0.0%
TOTAL D	RUG/POISON/ACTIVE METABOLITES DETECTED	4984	100.0%

Table 5.8 Number and Rate of Fatal Drug/Poison Overdoses by Locality of Residence, 2019

Accomack County 3 9.3 Albemarle County 12 11.0 Alexandria City 18 11.3 Alleghany County 1 6.7 Amelia County 7 53.3 Amherst County 6 19.0 Appomattox County 1 15.9 Arlington County 13 5.5 Augusta County 1 15.9 Bath County 0 0.0 Bedford County 6 7.6 Bland County 1 15.9 Botetourt County 7 20.9 Bristol City 3 17.9 Brunswick County 5 30.8 Buckingham County 6 28.6 Buckingham County 1 5.8 Buckingham County 1 5.8 Buena Vista City 0 0.0 Campbell County 5 16.3 Carrolline County 5 16.3 Carroll County 4 13.4 Charles City County 5 42.1 Charles City Co	Locality of Residence	Deaths	Rate
Alexandria City 18 11.3 Alleghany County 1 6.7 Amelia County 7 53.3 Amherst County 6 19.0 Appomattox County 1 12.6 Arlington County 13 5.5 Augusta County 1 15.9 Bath County 6 7.6 Bland County 1 15.9 Botetourt County 7 20.9 Bristol City 3 17.9 Brunswick County 5 30.8 Buckingham County 6 28.6 Buckingham County 1 5.8 Buena Vista City 0 0.0 Campbell County 5 9.1 Caroline County 5 9.1 Carolline County 5 16.3 Carroll County 4 13.4 Charles City County 3 43.1 Charles City County 5 10.6 Charlottesville City 5 10.6 Chesapeake City 42 17.2 Chesterf	Accomack County	3	9.3
Alleghany County 1 6.7 Amelia County 7 53.3 Amherst County 6 19.0 Appomattox County 2 12.6 Arlington County 13 5.5 Augusta County 12 15.9 Bath County 0 0.0 Bedford County 6 7.6 Bland County 1 15.9 Botetourt County 7 20.9 Bristol City 3 17.9 Brunswick County 5 30.8 Buckingham County 6 28.6 Buckingham County 1 5.8 Buena Vista City 0 0.0 Campbell County 5 9.1 Caroline County 5 9.1 Carolline County 5 9.1 Caroll County 4 13.4 Charles City County 3 43.1 Charles City County 5 10.6 Charles City County 5 10.6 Chesterfield County 99 28.1 Clarke Co	Albemarle County	12	11.0
Amelia County 7 53.3 Amherst County 6 19.0 Appomattox County 2 12.6 Arlington County 13 5.5 Augusta County 0 0.0 Bedford County 6 7.6 Bland County 1 15.9 Botetourt County 7 20.9 Bristol City 3 17.9 Brunswick County 5 30.8 Buchanan County 6 28.6 Buckingham County 1 5.8 Buena Vista City 0 0.0 Campbell County 5 9.1 Caroline County 5 9.1 Caroll County 4 13.4 Charles City County 4 13.4 Charles City County 5 42.1 Charlottesville City 5 10.6 Chesapeake City 42 17.2 Chesterfield County 99 28.1 Clarke County 3 20.5 Colonial Heights City 1 18.1 Cr	Alexandria City	18	11.3
Amherst County 6 19.0 Appomattox County 2 12.6 Arlington County 13 5.5 Augusta County 0 0.0 Bath County 6 7.6 Bland County 1 15.9 Botetourt County 7 20.9 Bristol City 3 17.9 Brunswick County 5 30.8 Buchanan County 6 28.6 Buckingham County 1 5.8 Buena Vista City 0 0.0 Campbell County 5 9.1 Caroline County 5 9.1 Caroll County 5 9.1 Caroll County 4 13.4 Charles City County 3 43.1 Charles City County 5 42.1 Charlottesville City 5 10.6 Chesapeake City 42 17.2 Chesterfield County 9 28.1 Clarke County 3 20.5 <td>Alleghany County</td> <td>1</td> <td>6.7</td>	Alleghany County	1	6.7
Appomattox County 2 12.6 Arlington County 13 5.5 Augusta County 12 15.9 Bath County 0 0.0 Bedford County 6 7.6 Bland County 1 15.9 Botetourt County 7 20.9 Bristol City 3 17.9 Brunswick County 5 30.8 Buchanan County 6 28.6 Buckingham County 1 5.8 Buena Vista City 0 0.0 Campbell County 5 9.1 Caroline County 5 9.1 Caroline County 4 13.4 Charles City County 3 43.1 Charles City County 5 42.1 Charlottesville City 5 10.6 Chesapeake City 42 17.2 Chesterfield County 3 20.5 Colonial Heights City 3 17.3 Covington City 1 18.1 Craig County 0 0.0 Cumb	Amelia County	7	53.3
Arlington County Augusta County Bath County Bedford County Bedford County Bedford County Botetourt County Bristol City Brunswick County Buckingham County Buckingham County Buckingham County Break City Campbell County Carroll County Carroll County Charles City County Charles City Chesapeake City Chesterfield County Clarke County County County County County County County Colonial Heights City County County County County County County County County Colonial County Colonial Heights City County County County Colonial County County Colonial County Colonial Heights City County Colonial Heights City County Colonial Heights City County Colonial Heights City County Colonial City Colonial County Colonial	Amherst County	6	19.0
Augusta County 12 15.9 Bath County 0 0.0 Bedford County 6 7.6 Bland County 1 15.9 Botetourt County 7 20.9 Bristol City 3 17.9 Brunswick County 5 30.8 Buchanan County 6 28.6 Buckingham County 1 5.8 Buena Vista City 0 0.0 Campbell County 5 9.1 Caroline County 5 9.1 Caroline County 4 13.4 Charles City County 3 43.1 Charlotte County 5 42.1 Charlottesville City 5 10.6 Chesapeake City 42 17.2 Chesterfield County 99 28.1 Clarke County 3 20.5 Colonial Heights City 3 17.3 Covington City 1 18.1 Craig County 0 0.0 Culpeper County 1 19.0 Cumberland	Appomattox County	2	12.6
Bath County Bedford County Bedford County Bland County Botetourt County Bristol City Brunswick County Brunswick County Buchanan County Buchanan County Buchanan County Buchanan County Buchanan County Buena Vista City Campbell County Carroll County Carroll County Charles City County Charlottes City Chesapeake City Chesterfield County Clarke County County Clarke County County County Buena Vista City Buena Vista Ci	Arlington County	13	5.5
Bedford County Bland County Bland County Botetourt County Firstol City Bristol City Brunswick County Brunswick County Buchanan County Buchanan County Buchanan County Buchanan County Buena Vista City Campbell County Caroline County Carroll County Carroll County Charles City County Charlotte County Charlotte County Chesapeake City Chesterfield County Clarke County Clarke County Clarke County Clarke County County Clarke County County Clarke County Clarke County County Clarke County C	Augusta County	12	15.9
Bland County 1 15.9 Botetourt County 7 20.9 Bristol City 3 17.9 Brunswick County 5 30.8 Buchanan County 6 28.6 Buckingham County 1 5.8 Buena Vista City 0 0.0 Campbell County 5 9.1 Carroline County 5 16.3 Carroll County 4 13.4 Charles City County 3 43.1 Charlotte County 5 42.1 Charlottesville City 5 10.6 Chesapeake City 42 17.2 Chesterfield County 99 28.1 Clarke County 3 20.5 Colonial Heights City 3 17.3 Covington City 1 18.1 Craig County 0 0.0 Culpeper County 10 19.0 Cumberland County 7 48.9 Dinwiddie County 6 21.	Bath County	0	0.0
Botetourt County Bristol City Brunswick County Buchanan County Buckingham County Buena Vista City Campbell County Caroline County Carroll County Charles City County Charlottes City Chesapeake City Chesterfield County Clarke County Clarke County Colonial Heights City County Culpeper County Dinwiddie County Emporia City Essex County Fairfax City Fairfax County Passes Buckingham County 5 30.8 30.8 30.8 30.8 30.8 30.8 30.8 30.8 30.8 30.8 30.8 30.8 30.8 30.8 30.8 30.8 30.8 30.8 30.9 30.0 40.0 40.0 40.0 40.0 41.0 41.0 41.0 41.0 42.1 4	Bedford County	6	7.6
Bristol City Brunswick County Brunswick County Buchanan County Buckingham County Buena Vista City Campbell County Caroline County Caroll County Charles City County Charles City County Charlotte Sounty Charlotte County Charlotte County Charlotte County Chesapeake City Chesterfield County Clarke County Clarke County Clarke County Covington City County Culpeper County Dinwiddie County Dinwiddie County Dinwiddie County Emporia City Essex County Fairfax County Fairfax County Po 0 0.0	Bland County	1	15.9
Brunswick County Buchanan County Buckingham County Buena Vista City Campbell County Caroline County Carroll County Charles City County Charlotte County Charlotte City Chesapeake City Chesterfield County Clarke County Colonial Heights City County Culpeper County Dinwiddie County Dinwiddie County Dinwiddie County Essex County Fairfax City Fairfax County Falls Church City Fairfax County Fairfax County Fairfax County Falls Church City Fairfax County Fairfax County Fairfax County Fairfax County Falls Church City Fairfax County Fairfax Coun	Botetourt County	7	20.9
Brunswick County Buchanan County Buckingham County Buena Vista City Campbell County Caroline County Carroll County Charles City County Charlotte County Charlotte City Chesapeake City Chesterfield County Clarke County Colonial Heights City County Culpeper County Dinwiddie County Dinwiddie County Dinwiddie County Essex County Fairfax City Fairfax County Falls Church City Fairfax County Fairfax County Fairfax County Falls Church City Fairfax County Fairfax County Fairfax County Fairfax County Falls Church City Fairfax County Fairfax Coun	Bristol City	3	17.9
Buckingham County Buena Vista City O Campbell County S S S S Carroline County Carroll County S Carroll County S Carroll County S Charles City County S Charlotte County S Charlottesville City Charlottesville City S Chesterfield County S Colonial Heights City Craig County Culpeper County Danville City Dickenson County Dinwiddie County S Emporia City Fairfax County S S S S S S S S S S S S S S S S S S S	·	5	30.8
Buckingham County Buena Vista City O Campbell County S S S S Carroline County Carroll County S Carroll County S Carroll County S Charles City County S Charlotte County S Charlottesville City Charlottesville City S Chesterfield County S Colonial Heights City Craig County Culpeper County Danville City Dickenson County Dinwiddie County S Emporia City Fairfax County S S S S S S S S S S S S S S S S S S S	Buchanan County	6	28.6
Campbell County Caroline County 5 16.3 Carroll County 4 13.4 Charles City County 5 42.1 Charlottes Ville City 5 10.6 Chesapeake City Chesterfield County 99 28.1 Clarke County Clarke County Covington City Craig County Cumberland County Dickenson County Dinwiddie County Essex County Fairfax City Falls Church City P 1 6 25.0 Fairfax County P 1 6 8.4 Falls Church City P 3 0.0	Buckingham County	1	5.8
Campbell County Caroline County 5 16.3 Carroll County 4 13.4 Charles City County 5 42.1 Charlottes Ville City 5 10.6 Chesapeake City Chesterfield County 99 28.1 Clarke County Clarke County Covington City Craig County Cumberland County Dickenson County Dinwiddie County Essex County Fairfax City Falls Church City P 1 6 25.0 Fairfax County P 1 6 8.4 Falls Church City P 3 0.0	Buena Vista City	0	0.0
Caroline County Carroll County Charles City County Charles City County Charlottee County Charlottesville City Chesapeake City Chesapeake City Chesterfield County Clarke County Colonial Heights City Craig County Culpeper County Danville City Dickenson County Dinwiddie County Essex County Fairfax City Falls Church City Falls Church City 1 16.3 43.4 13.4 13.4 13.4 13.4 13.4 13.1 10.6 13.2 13.2 13.2 13.2 13.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3	•	5	9.1
Carroll County Charles City County Charlotte County Charlottee County Charlotteeville City Chesapeake City Chesterfield County Clarke County Colonial Heights City Craig County Culpeper County Danville City Dickenson County Dinwiddie County Essex County Fairfax City Falls Church City 1 3.4 13.4 13.4 13.4 13.4 13.4 13.4 13.4 1	,	5	
Charles City County343.1Charlotte County542.1Charlottesville City510.6Chesapeake City4217.2Chesterfield County9928.1Clarke County320.5Colonial Heights City317.3Covington City118.1Craig County00.0Culpeper County1019.0Cumberland County110.1Danville City1025.0Dickenson County748.9Dinwiddie County621.0Emporia City00.0Essex County00.0Fairfax City625.0Fairfax County968.4Falls Church City00.0	,	4	13.4
Charlotte County Charlottesville City Chesapeake City Chesterfield County Clarke County Clarke County Colonial Heights City Craig County Culpeper County Danville City Dickenson County Dinwiddie County Emporia City Fairfax County Fairfax County Chesapeake City Fairfax City State County State County State County State City State County State City State	•	3	
Charlottesville City510.6Chesapeake City4217.2Chesterfield County9928.1Clarke County320.5Colonial Heights City317.3Covington City118.1Craig County00.0Culpeper County1019.0Cumberland County110.1Danville City1025.0Dickenson County748.9Dinwiddie County621.0Emporia City00.0Essex County00.0Fairfax City625.0Fairfax County968.4Falls Church City00.0	, ,	5	42.1
Chesterfield County 99 28.1 Clarke County 3 20.5 Colonial Heights City 3 17.3 Covington City 1 18.1 Craig County 0 0.0 Culpeper County 10 19.0 Cumberland County 1 10.1 Danville City 10 25.0 Dickenson County 7 48.9 Dinwiddie County 6 21.0 Emporia City 0 0.0 Essex County 0 0.0 Fairfax City 6 25.0 Fairfax County 96 8.4 Falls Church City 0 0.0	Charlottesville City	5	10.6
Chesterfield County 99 28.1 Clarke County 3 20.5 Colonial Heights City 3 17.3 Covington City 1 18.1 Craig County 0 0.0 Culpeper County 10 19.0 Cumberland County 1 10.1 Danville City 10 25.0 Dickenson County 7 48.9 Dinwiddie County 6 21.0 Emporia City 0 0.0 Essex County 0 0.0 Fairfax City 6 25.0 Fairfax County 96 8.4 Falls Church City 0 0.0	Chesapeake City	42	17.2
Colonial Heights City 3 17.3 Covington City 1 18.1 Craig County 0 0.0 Culpeper County 10 19.0 Cumberland County 1 10.1 Danville City 10 25.0 Dickenson County 7 48.9 Dinwiddie County 6 21.0 Emporia City 0 0.0 Essex County 0 0.0 Fairfax City 6 25.0 Fairfax County 96 8.4 Falls Church City 0 0.0		99	28.1
Covington City 1 18.1 Craig County 0 0.0 Culpeper County 10 19.0 Cumberland County 1 10.1 Danville City 10 25.0 Dickenson County 7 48.9 Dinwiddie County 6 21.0 Emporia City 0 0.0 Essex County 0 0.0 Fairfax City 6 25.0 Fairfax County 96 8.4 Falls Church City 0 0.0	Clarke County	3	20.5
Covington City 1 18.1 Craig County 0 0.0 Culpeper County 10 19.0 Cumberland County 1 10.1 Danville City 10 25.0 Dickenson County 7 48.9 Dinwiddie County 6 21.0 Emporia City 0 0.0 Essex County 0 0.0 Fairfax City 6 25.0 Fairfax County 96 8.4 Falls Church City 0 0.0	Colonial Heights City	3	17.3
Craig County 0 0.0 Culpeper County 10 19.0 Cumberland County 1 10.1 Danville City 10 25.0 Dickenson County 7 48.9 Dinwiddie County 6 21.0 Emporia City 0 0.0 Essex County 0 0.0 Fairfax City 6 25.0 Fairfax County 96 8.4 Falls Church City 0 0.0		1	18.1
Cumberland County 1 10.1 Danville City 10 25.0 Dickenson County 7 48.9 Dinwiddie County 6 21.0 Emporia City 0 0.0 Essex County 0 0.0 Fairfax City 6 25.0 Fairfax County 96 8.4 Falls Church City 0 0.0		0	0.0
Cumberland County 1 10.1 Danville City 10 25.0 Dickenson County 7 48.9 Dinwiddie County 6 21.0 Emporia City 0 0.0 Essex County 0 0.0 Fairfax City 6 25.0 Fairfax County 96 8.4 Falls Church City 0 0.0	Culpeper County	10	
Danville City 10 25.0 Dickenson County 7 48.9 Dinwiddie County 6 21.0 Emporia City 0 0.0 Essex County 0 0.0 Fairfax City 6 25.0 Fairfax County 96 8.4 Falls Church City 0 0.0	Cumberland County	1	10.1
Dickenson County748.9Dinwiddie County621.0Emporia City00.0Essex County00.0Fairfax City625.0Fairfax County968.4Falls Church City00.0	Danville City	10	25.0
Dinwiddie County 6 21.0 Emporia City 0 0.0 Essex County 0 0.0 Fairfax City 6 25.0 Fairfax County 96 8.4 Falls Church City 0 0.0	Dickenson County	7	
Emporia City 0 0.0 Essex County 0 0.0 Fairfax City 6 25.0 Fairfax County 96 8.4 Falls Church City 0 0.0	·		
Essex County 0 0.0 Fairfax City 6 25.0 Fairfax County 96 8.4 Falls Church City 0 0.0	•		
Fairfax City 6 25.0 Fairfax County 96 8.4 Falls Church City 0 0.0	,	0	
Fairfax County 96 8.4 Falls Church City 0 0.0	•		
Falls Church City 0 0.0	,		
·	•		
	Fauquier County	18	25.3

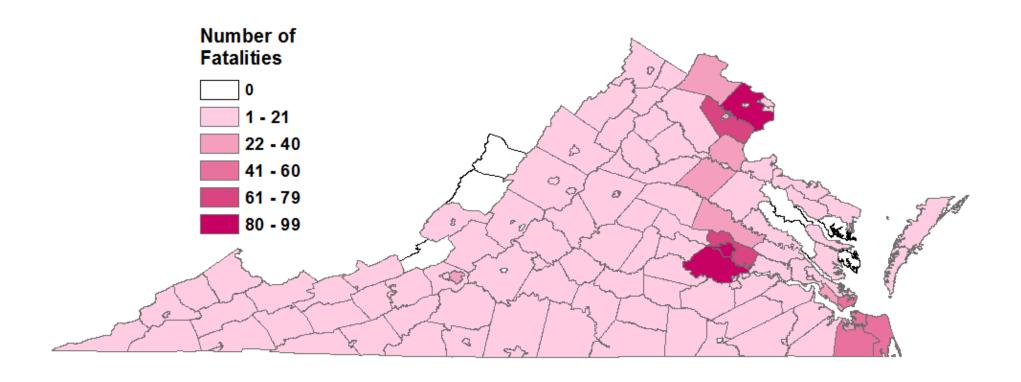
Locality of Residence	Deaths	Rate
Floyd County	2	12.7
Fluvanna County	1	3.7
Franklin City	1	12.6
Franklin County	9	16.1
Frederick County	14	15.7
Fredericksburg City	5	17.2
Galax City	2	31.5
Giles County	3	17.9
Gloucester County	6	16.1
Goochland County	4	16.8
Grayson County	2	12.9
Greene County	4	20.2
Greensville County	1	8.8
Halifax County	8	23.6
Hampton City	53	39.4
Hanover County	23	21.3
Harrisonburg City	9	17.0
Henrico County	71	21.5
Henry County	17	33.6
Highland County	0	0.0
Hopewell City	11	48.8
Isle of Wight County	7	18.9
James City County	8	10.5
King and Queen County	0	0.0
King George County	8	29.8
King William County	3	17.5
Lancaster County	0	0.0
Lee County	6	25.6
Lexington City	1	13.4
Loudoun County	22	5.3
Louisa County	14	37.2
Lunenburg County	1	8.2
Lynchburg City	19	23.1
Madison County	4	30.2
Manassas City	10	24.3
Manassas Park City	2	11.4
Martinsville City	7	55.8
Mathews County	0	0.0
Mecklenburg County	4	13.1
Middlesex County	1	9.5
Montgomery County	11	11.2

Locality of Residence	Deaths	Rate
Nelson County	3	20.1
New Kent County	4	17.3
Newport News City	38	21.2
Norfolk City	51	21.0
Northampton County	1	8.5
Northumberland County	1	8.3
Norton City	1	25.1
Nottoway County	3	19.7
Orange County	11	29.7
Page County	6	25.1
Patrick County	3	17.0
Petersburg City	13	41.5
Pittsylvania County	16	26.5
Poquoson City	2	16.3
Portsmouth City	37	39.2
Powhatan County	7	23.6
Prince Edward County	4	17.5
Prince George County	7	18.3
Prince William County	61	13.0
Pulaski County	11	32.3
Radford City	3	16.4
Rappahannock County	2	27.1
Richmond City	92	39.9
Richmond County	3	33.2
Roanoke City	40	40.3
Roanoke County	13	13.8
Rockbridge County	2	8.9
Rockingham County	10	12.2
Russell County	4	15.0
Salem City	7	27.7
Scott County	3	13.9
Shenandoah County	12	27.5
Smyth County	6	19.9
Southampton County	1	5.7
Spotsylvania County	33	24.2
Stafford County	32	20.9
Staunton City	3	12.0
Suffolk City	15	16.3
Surry County	1	15.6
Sussex County	3	26.9
Tazewell County	15	37.0
Virginia Beach City	55	12.2
Warren County	20	49.8

Locality of Residence	Deaths	Rate
Washington County	8	14.9
Waynesboro City	9	39.8
Westmoreland County	8	44.4
Williamsburg City	2	13.4
Winchester City	10	35.6
Wise County	12	32.1
Wythe County	4	13.9
York County	14	20.5
Subtotal (in-state)	1528	17.9
Out of State	95	ND
Unknown	4	ND
Subtotal (out-of-state)	99	ND
TOTAL	1627	19.1

Note: No denominator is represented by ND

Map 5.1 Number of Fatal Drug/Poison Overdoses by Locality of Residence, 2019



Map 5.2 Rates of Fatal Drug/Poison Overdoses by Locality of Residence, 2019

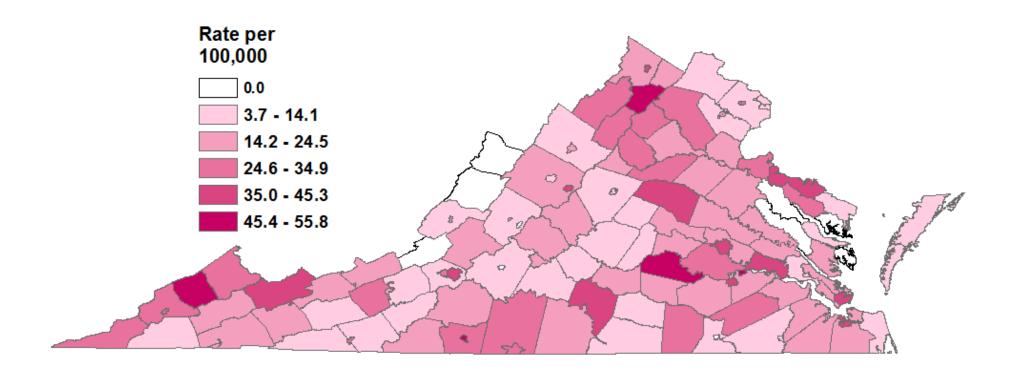


Table 5.9 Number and Rate of Fatal Drug/Poison Overdoses by Locality of Injury, 2019

Locality of Injury	Deaths	Rate
Accomack County	3	9.3
Albemarle County	9	8.2
Alexandria City	19	11.9
Alleghany County	1	6.7
Amelia County	4	30.4
Amherst County	8	25.3
Appomattox County	2	12.6
Arlington County	18	7.6
Augusta County	10	13.2
Bath County	0	0.0
Bedford County	5	6.3
Bland County	1	15.9
Botetourt County	3	9.0
Bristol City	2	11.9
Brunswick County	7	43.1
Buchanan County	5	23.8
Buckingham County	3	17.5
Buena Vista City	0	0.0
Campbell County	7	12.8
Caroline County	5	16.3
Carroll County	5	16.8
Charles City County	3	43.1
Charlotte County	4	33.7
Charlottesville City	8	16.9
Chesapeake City	39	15.9
Chesterfield County	79	22.4
Clarke County	4	27.4
Colonial Heights City	5	28.8
Covington City	1	18.1
Craig County	0	0.0
Culpeper County	9	17.1
Cumberland County	1	10.1
Danville City	13	32.5
Dickenson County	6	41.9
Dinwiddie County	5	17.5
Emporia City	1	18.7
Essex County	1	9.1
Fairfax City	6	25.0
Fairfax County	100	8.7
Falls Church City	0	0.0
Fauquier County	12	16.8
Floyd County	1	6.3
Fluvanna County	4	14.7

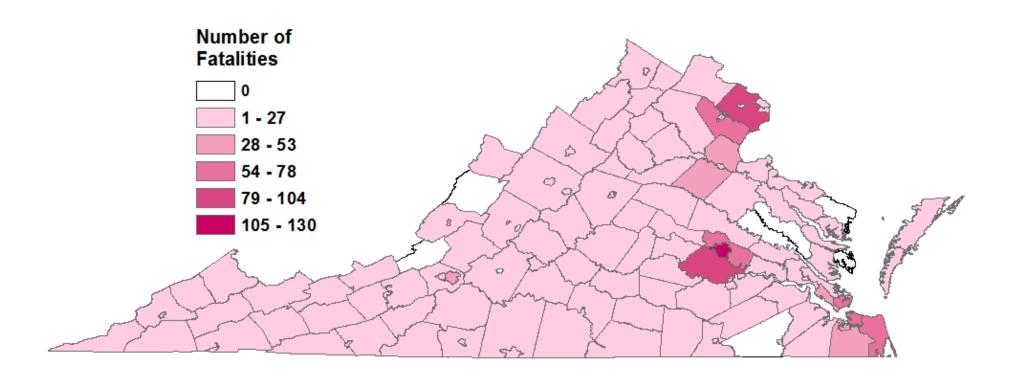
Locality of Injury	Deaths	Rate
Franklin City	1	12.6
Franklin County	11	19.6
Frederick County	18	20.2
Fredericksburg City	6	20.7
Galax City	2	31.5
Giles County	1	6.0
Gloucester County	5	13.4
Goochland County	3	12.6
Grayson County	3	19.3
Greene County	3	15.1
Greensville County	2	17.6
Halifax County	6	17.7
Hampton City	56	41.6
Hanover County	22	20.4
Harrisonburg City	11	20.7
Henrico County	74	22.4
Henry County	19	37.6
Highland County	1	45.7
Hopewell City	12	53.3
Isle of Wight County	5	13.5
James City County	7	9.1
King and Queen County	0	0.0
King George County	5	18.6
King William County	0	0.0
Lancaster County	1	9.4
Lee County	6	25.6
Lexington City	1	13.4
Loudoun County	24	5.8
Louisa County	10	26.6
Lunenburg County	1	8.2
Lynchburg City	19	23.1
Madison County	4	30.2
Manassas City	12	29.2
Manassas Park City	2	11.4
Martinsville City	5	39.8
Mathews County	0	0.0
Mecklenburg County	6	19.6
Middlesex County	3	28.4
Montgomery County	12	12.2
Nelson County	1	6.7
New Kent County	3	13.0
Newport News City	40	22.3
Norfolk City	59	24.3

Locality of Injury	Deaths	Rate
Northampton County	1	8.5
Northumberland County	0	0.0
Norton City	1	25.1
Nottoway County	5	32.8
Orange County	9	24.3
Page County	6	25.1
Patrick County	3	17.0
Petersburg City	18	57.4
Pittsylvania County	14	23.2
Poquoson City	2	16.3
Portsmouth City	41	43.4
Powhatan County	5	16.9
Prince Edward County	3	13.2
Prince George County	5	13.0
Prince William County	66	14.0
Pulaski County	14	41.1
Radford City	2	11.0
Rappahannock County	3	40.7
Richmond City	130	56.4
Richmond County	2	22.2
Roanoke City	46	46.4
Roanoke County	15	15.9
Rockbridge County	3	13.3
Rockingham County	10	12.2
Russell County	3	11.3
Salem City	8	31.6
Scott County	2	9.3
Shenandoah County	13	29.8
Smyth County	4	13.3
Southampton County	0	0.0
Spotsylvania County	42	30.8
Stafford County	31	20.3
Staunton City	6	24.1
Suffolk City	12	13.0
Surry County	1	15.6
Sussex County	6	53.8
Tazewell County	17	41.9
Virginia Beach City	56	12.4
Warren County	16	39.8
Washington County	8	14.9
Waynesboro City	9	39.8
Westmoreland County	6	33.3
Williamsburg City	3	20.1

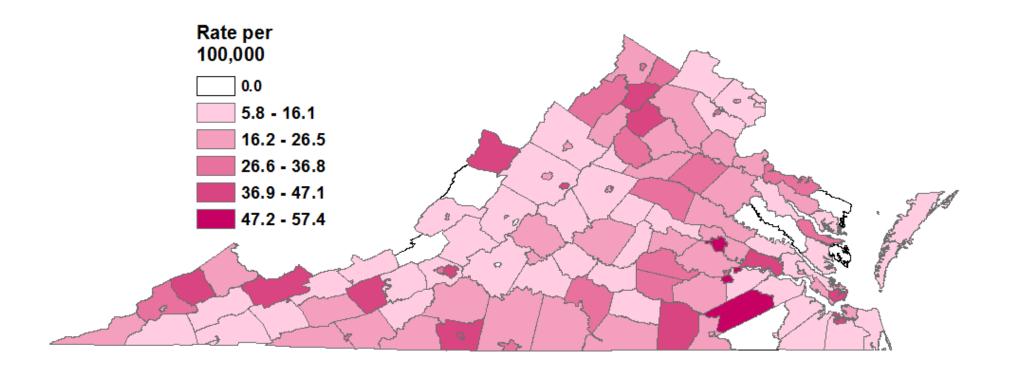
Locality of Injury	Deaths	Rate
Winchester City	10	35.6
Wise County	12	32.1
Wythe County	5	17.4
York County	9	13.2
Subtotal (in-state)	1584	18.6
Out of State	18	ND
Unknown	25	ND
Subtotal (out-of-state)	43	ND
TOTAL	1627	19.1

Note: No denominator is represented by ND

Map 5.3 Number of Fatal Drug/Poison Overdoses by Locality of Injury, 2019



Map 5.4 Rates of Fatal Drug/Poison Overdoses by Locality of Injury, 2019



PRESCRIPTION OPIOIDS EXCLUDING FENTANYL (N=462)

Prior to 2015, the largest number of fatal drug overdoses were attributed to prescription opioids. Although heroin and/or fentanyl deaths surpassed prescription opioid deaths in 2015, one or more prescription opioids (excluding fentanyl) still represented 28.4% of all fatal drug overdoses in 2019.

- Oxycodone continued to be the most common prescription opioid causing or contributing to death
- Whites made up 81.0% of the fatal prescription opioid (excluding fentanyl) overdoses in 2019
- Males aged 35-44 years had the highest rates of fatal prescription opioid (excluding fentanyl)
 overdose in 2019 (11.2 deaths per 100,00 persons)

Figure 5.12 Number of All Fatal Drug Overdoses Compared to All Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Year of Death, 2007-2019

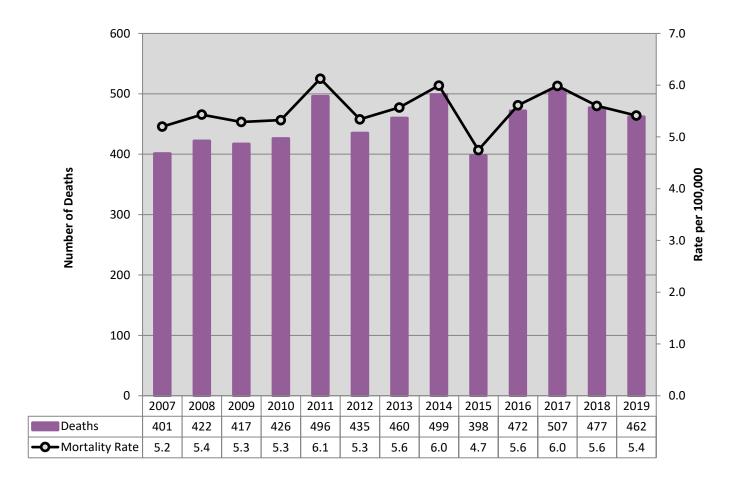


Figure 5.13 Number of Prescription Opioids (Excluding Fentanyl) Causing or Contributing to

Death in Fatal Drug/Poison Overdoses, 2019

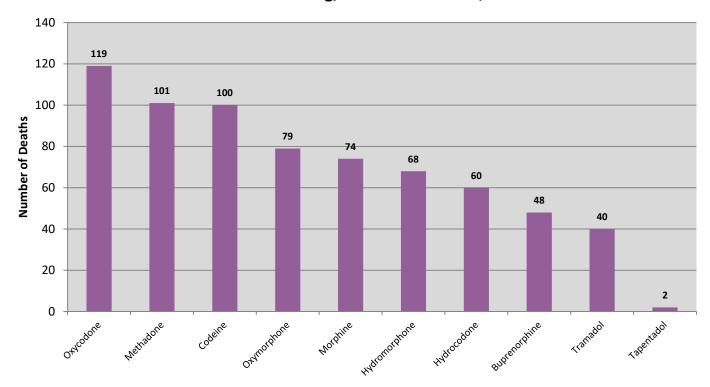


Figure 5.14 Percentage of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Manner of Death, 2019

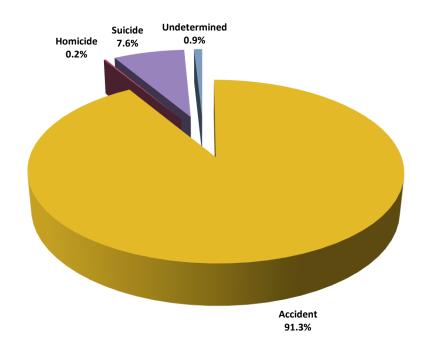


Table 5.10 Number of Prescription Opioids (Excluding Fentanyl) Detected in Fatal Drug Overdoses by OCME District, 2019

Prescription Opioid	Central	Northern	Tidewater	Western	TOTAL
Oxycodone	27	31	26	42	126
Codeine	26	24	37	19	106
Methadone	22	20	19	21	82
Morphine	20	39	14	4	77
Oxymorphone	15	23	13	21	72
Buprenorphine	9	15	3	24	51
Hydromorphone	8	15	14	9	46
Tramadol	7	14	6	13	40
Hydrocodone	7	6	8	15	36
Tapentadol	0	1	0	0	1
TOTAL	141	188	140	168	637

Note: Summing the subtotals will surpass the total since the groups are not mutually exclusive because often, more than one drug causes death

Figure 5.15 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Age Group and Gender, 2019

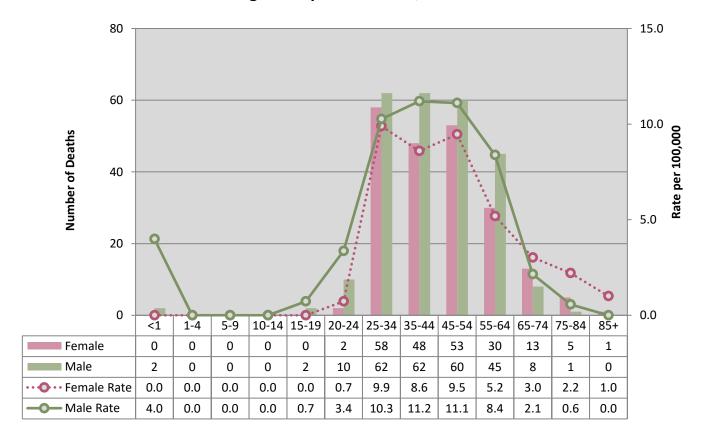


Figure 5.16 Percentage of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Race/Ethnicity, 2019

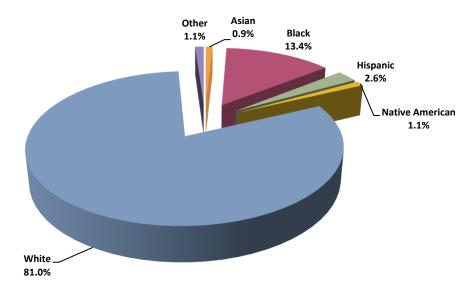


Figure 5.17 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Race/Ethnicity and Gender, 2019



^{*}No rate can be calculated

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Asians and Native Americans)

Table 5.11 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Residence, 2019

Locality of Residence	Deaths	Rate
Accomack County	1	3.1
Albemarle County	2	1.8
Alexandria City	2	1.3
Alleghany County	1	6.7
Amelia County	3	22.8
Amherst County	0	0.0
Appomattox County	2	12.6
Arlington County	6	2.5
Augusta County	3	4.0
Bath County	0	0.0
Bedford County	2	2.5
Bland County	0	0.0
Botetourt County	3	9.0
Bristol City	2	11.9
Brunswick County	1	6.2
Buchanan County	2	9.5
Buckingham County	1	5.8
Buena Vista City	0	0.0
Campbell County	2	3.6
Caroline County	3	9.8
Carroll County	2	6.7
Charles City County	1	14.4
Charlotte County	1	8.4
Charlottesville City	1	2.1
Chesapeake City	19	7.8
Chesterfield County	22	6.2
Clarke County	2	13.7
Colonial Heights City	1	5.8
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	6	11.4
Cumberland County	0	0.0
Danville City	2	5.0
Dickenson County	3	21.0
Dinwiddie County	1	3.5
Emporia City	0	0.0
Essex County	0	0.0
Fairfax City	2	8.3
Fairfax County	30	2.6

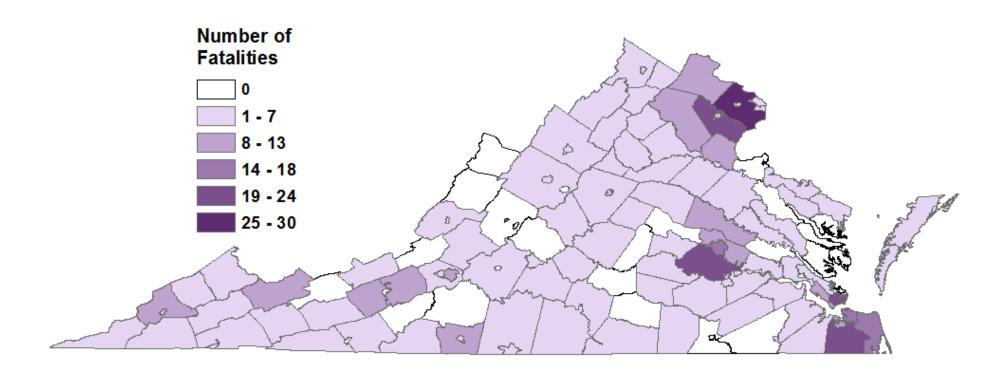
Locality of Residence	Deaths	Rate
Falls Church City	0	0.0
Fauquier County	7	9.8
Floyd County	0	0.0
Fluvanna County	1	3.7
Franklin City	1	12.6
Franklin County	0	0.0
Frederick County	4	4.5
Fredericksburg City	1	3.4
Galax City	0	0.0
Giles County	1	6.0
Gloucester County	0	0.0
Goochland County	0	0.0
Grayson County	1	6.4
Greene County	1	5.0
Greensville County	0	0.0
Halifax County	2	5.9
Hampton City	19	14.1
Hanover County	7	6.5
Harrisonburg City	1	1.9
Henrico County	12	3.6
Henry County	7	13.8
Highland County	0	0.0
Hopewell City	4	17.8
Isle of Wight County	3	8.1
James City County	4	5.2
King and Queen County	2	28.5
King George County	0	0.0
King William County	1	5.8
Lancaster County	0	0.0
Lee County	2	8.5
Lexington City	0	0.0
Loudoun County	9	2.2
Louisa County	5	13.3
Lunenburg County	0	0.0
Lynchburg City	4	4.9
Madison County	2	15.1
Manassas City	2	4.9
Manassas Park City	1	5.7
Martinsville City	2	15.9

Locality of Residence	Deaths	Rate
Mathews County	0	0.0
Mecklenburg County	2	6.5
Middlesex County	0	0.0
Montgomery County	7	7.1
Nelson County	2	13.4
New Kent County	0	0.0
Newport News City	9	5.0
Norfolk City	16	6.6
Northampton County	1	8.5
Northumberland County	1	8.3
Norton City	1	25.1
Nottoway County	1	6.6
Orange County	2	5.4
Page County	2	8.4
Patrick County	2	11.4
Petersburg City	3	9.6
Pittsylvania County	3	5.0
Poquoson City	0	0.0
Portsmouth City	12	12.7
Powhatan County	2	6.7
Prince Edward County	0	0.0
Prince George County	1	2.6
Prince William County	19	4.0
Pulaski County	9	26.4
Radford City	0	0.0
Rappahannock County	1	13.6
Richmond City	16	6.9
Richmond County	1	11.1
Roanoke City	8	8.1
Roanoke County	4	4.2

Locality of Residence	Deaths	Rate
Rockbridge County	0	0.0
Rockingham County	3	3.7
Russell County	1	3.8
Salem City	1	4.0
Scott County	2	9.3
Shenandoah County	3	6.9
Smyth County	2	6.6
Southampton County	0	0.0
Spotsylvania County	4	2.9
Stafford County	8	5.2
Staunton City	1	4.0
Suffolk City	1	1.1
Surry County	1	15.6
Sussex County	1	9.0
Tazewell County	8	19.7
Virginia Beach City	13	2.9
Warren County	4	10.0
Washington County	2	3.7
Waynesboro City	0	0.0
Westmoreland County	2	11.1
Williamsburg City	0	0.0
Winchester City	5	17.8
Wise County	8	21.4
Wythe County	1	3.5
York County	3	4.4
Subtotal (in-state)	434	5.1
Out of State	27	ND
Unknown	1	ND
Subtotal (out-of-state)	28	ND
TOTAL	462	5.4

Note: No denominator is represented by ND

Map 5.5 Number of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Residence, 2019



Map 5.6 Rates of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Residence, 2019

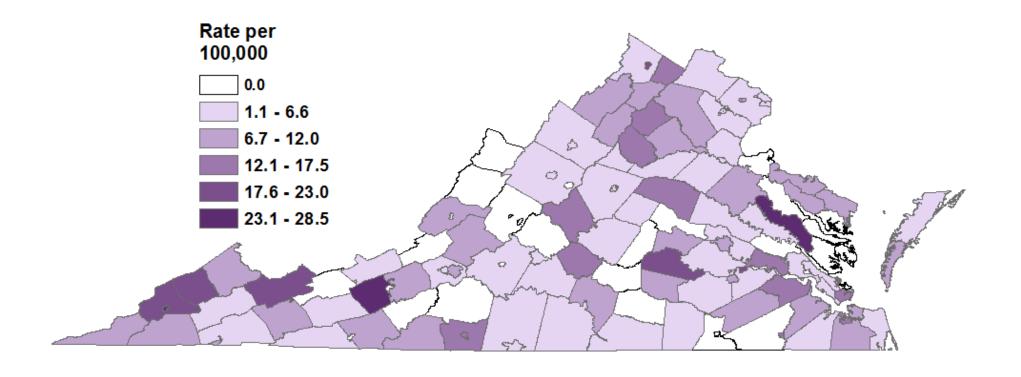


Table 5.12 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Injury, 2019

Accomack County 1 3.1 Albemarle County 1 0.9 Alexandria City 4 2.5 Alleghany County 1 6.7 Amelia County 0 0.0 Appomattox County 2 12.6 Arlington County 8 3.4 Augusta County 4 5.3 Bath County 0 0.0 Bedford County 1 1.3 Bland County 0 0.0 Botetourt County 2 6.0 Bristol City 1 6.0 Brunswick County 2 12.3 Buckingham County 2 9.5 Buckingham County 1 5.8 Buena Vista City 0 0.0 Campbell County 2 3.6 Caroline County 2 3.6 Caroline County 3 10.1 Charles City County 1 14.4 Charlottesville City 2 4.2	Locality of Injury	Deaths	Rate
Alexandria City Alleghany County Amelia County Amelia County Amelia County Amerst County Appomattox County Appomattox County Alington County Augusta County Bath County Bedford County Bedford County Bedford County Botetourt County Botetourt County Bristol City Brunswick County Buchanan County Buchanan County Buena Vista City Campbell County Carroll County Carroll County Charlotte Scity County Charlotte County Charlotte County Charlotte City Chesapeake City Chesapeake City Covington City County Clarke County Clarke County C	Accomack County	1	3.1
Alleghany County Amelia County Amelia County Amelia County Appomattox County Appomattox County Alington County Augusta County Bath County Bedford County Bedford County Botetourt County Bristol City Brunswick County Buchanan County Buchanan County Buena Vista City Campbell County Carroll County Charlottesville City Chesterfield County Clarke County Danville City Dinwiddie County Danville City Disser County Dinwiddie County Dinwiddie County Disser County Disser County Disser County Disser County Disser County Dinwiddie County Disser County Disser County Disser County Disser County Disser County Dinwiddie County Dinwiddie County Disser County Disser County Disser County Disser County Disser County Disser County Dinwiddie County Disser County Disser County Dinwiddie County Disser	Albemarle County	1	0.9
Amelia County 2 15.2 Amherst County 0 0.0 Appomattox County 2 12.6 Arlington County 8 3.4 Augusta County 0 0.0 Bedford County 1 1.3 Bland County 0 0.0 Botetourt County 2 6.0 Bristol City 1 6.0 Brunswick County 2 12.3 Buchanan County 2 9.5 Buckingham County 1 5.8 Buena Vista City 0 0.0 Campbell County 2 3.6 Caroline County 4 13.0 Carroll County 3 10.1 Charles City County 1 14.4 Charles City County 1 14.4 Charlottesville City 2 4.2 Chesapeake City 14 5.7 Chesapeake City 14 5.7 Chesterfield County 1 5.8 Covington City 0 0.0 Craig County <td>Alexandria City</td> <td>4</td> <td>2.5</td>	Alexandria City	4	2.5
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Appomattox County		2	15.2
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Falls Church City 0 0.0 Fauquier County 6 8.4	•		
Fauquier County 6 8.4	•		
	•		
	Floyd County	0	0.0

Locality of Injury	Deaths	Rate
Fluvanna County	2	7.3
Franklin City	1	12.6
Franklin County	2	3.6
Frederick County	7	7.8
Fredericksburg City	1	3.4
Galax City	0	0.0
Giles County	1	6.0
Gloucester County	0	0.0
Goochland County	0	0.0
Grayson County	1	6.4
Greene County	1	5.0
Greensville County	0	0.0
Halifax County	1	2.9
Hampton City	18	13.4
Hanover County	8	7.4
Harrisonburg City	1	1.9
Henrico County	13	3.9
Henry County	8	15.8
Highland County	0	0.0
Hopewell City	3	13.3
Isle of Wight County	3	8.1
James City County	2	2.6
King and Queen County	0	0.0
King George County	2	7.5
King William County	0	0.0
Lancaster County	1	9.4
Lee County	2	8.5
Lexington City	0	0.0
Loudoun County	10	2.4
Louisa County	5	13.3
Lunenburg County	0	0.0
Lynchburg City	4	4.9
Madison County	2	15.1
Manassas City	3	7.3
Manassas Park City	1	5.7
Martinsville City	1	8.0
Mathews County	0	0.0
Mecklenburg County	3	9.8
Middlesex County	2	18.9
Montgomery County	6	6.1
Nelson County	0	0.0
New Kent County	0	0.0

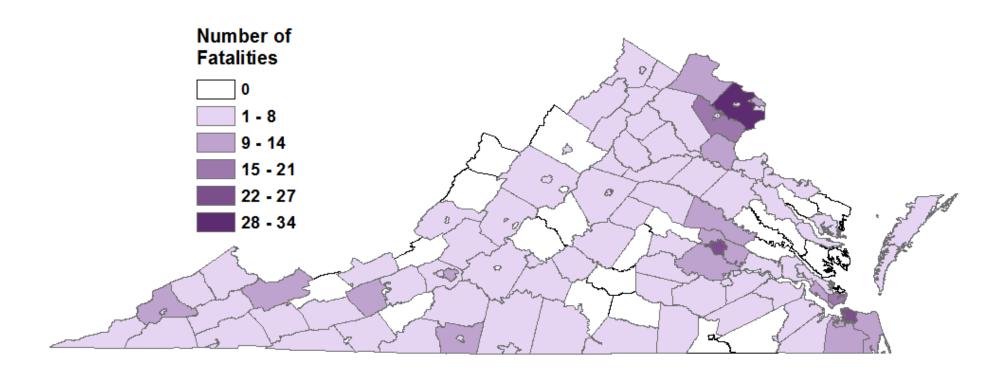
Virginia Department of Health

Locality of Injury	Deaths	Rate
Newport News City	11	6.1
Norfolk City	21	8.7
Northampton County	1	8.5
Northumberland County	0	0.0
Norton City	1	25.1
Nottoway County	2	13.1
Orange County	2	5.4
Page County	2	8.4
Patrick County	2	11.4
Petersburg City	4	12.8
Pittsylvania County	2	3.3
Poquoson City	0	0.0
Portsmouth City	12	12.7
Powhatan County	1	3.4
Prince Edward County	0	0.0
Prince George County	1	2.6
Prince William County	16	3.4
Pulaski County	10	29.4
Radford City	0	0.0
Rappahannock County	1	13.6
Richmond City	22	9.5
Richmond County	0	0.0
Roanoke City	9	9.1
Roanoke County	7	7.4
Rockbridge County	3	13.3
Rockingham County	0	0.0
Russell County	1	3.8
Salem City	3	11.9
Scott County	2	9.3
Shenandoah County	3	6.9
Smyth County	2	6.6
Southampton County	0	0.0
Spotsylvania County	6	4.4
Stafford County	8	5.2
Staunton City	1	4.0
Suffolk City	1	1.1
Surry County	1	15.6
Sussex County	1	9.0
Tazewell County	9	22.2
Virginia Beach City	13	2.9
Warren County	3	7.5
Washington County	2	3.7
Waynesboro City	0	0.0

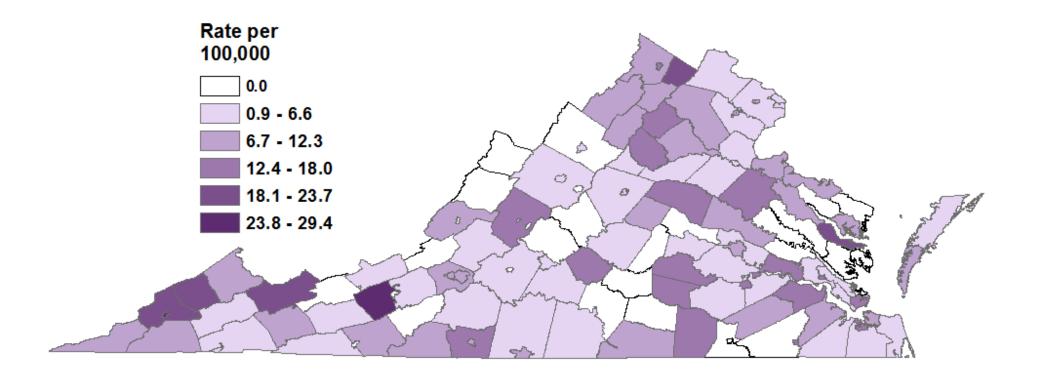
Locality of Injury	Deaths	Rate
Westmoreland County	2	11.1
Williamsburg City	2	13.4
Winchester City	4	14.2
Wise County	8	21.4
Wythe County	1	3.5
York County	3	4.4
Subtotal (in-state)	452	5.3
Out of State	5	ND
Unknown	5	ND
Subtotal (out-of-state)	10	ND
TOTAL	462	5.4

Note: No denominator is represented by ND

Map 5.7 Number of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Injury, 2019



Map 5.8 Rates of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Injury, 2019



FENTANYL AND/OR HEROIN DEATHS (N=1,073)

The number of fatal fentanyl and/or heroin overdoses has significantly increased each year since 2010. Illicitly-produced fentanyl began appearing in Virginia in 2013/2014 and is often mixed in with heroin or sold disguised as heroin, often unbeknownst to the user. In 2016, Virginia began seeing a spike in fentanyl analogs; drugs similar to fentanyl, but slightly different in their chemical structure which alters potency. Illicitly produced fentanyl, but not the various fentanyl analogs, is indistinguishable from pharmaceutical fentanyl in toxicology.

- Fatal fentanyl and/or heroin overdoses in 2019 increased by 11.7% when compared to 2018
- Nearly 99% of fatal fentanyl and/or heroin overdoses in 2019 were accidents
- In 2018, males 35-44 and 25-34 years of age had the highest rate of death (36.5 and 36.4 deaths per 100,000 persons, respectively)
- Fentanyl and/or heroin was involved in 65.9% of all drug/poison cases in Virginia in 2019
- Of all fentanyl and/or heroin overdoses in 2019, only 13.8% occurred in the Western OCME region

Figure 5.18 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Year of Death, 2007-2019

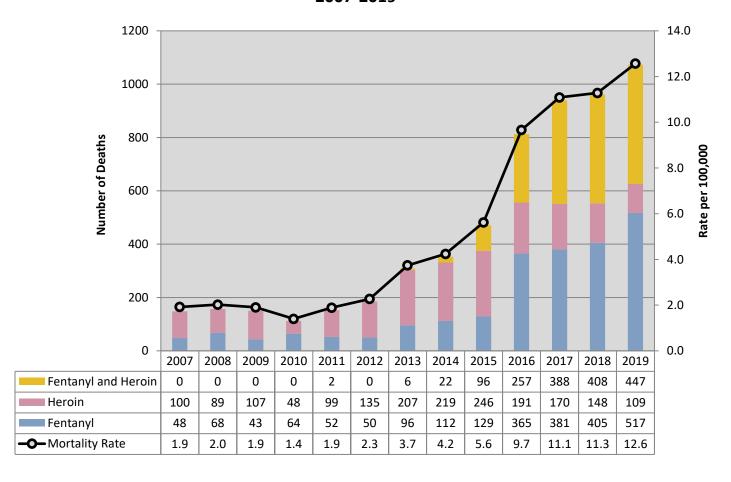
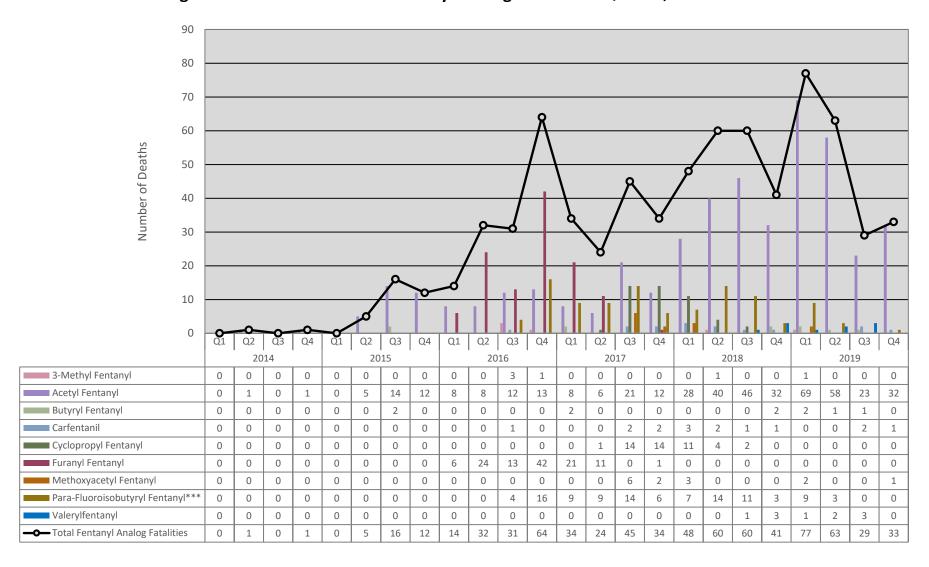


Figure 5.19 Number of Fatal Fentanyl Analog Overdoses Quarter, 2014-2019

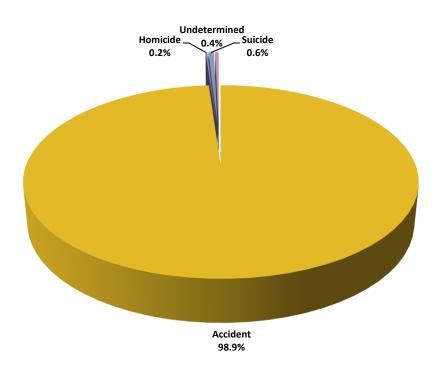


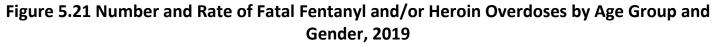
^{**} Each fentanyl analog is tallied by each time it caused or contributed to death (analyzed from either toxicology or the cause of death statement) and therefore the total number of analogs will exceed the actual number of fatalities

Table 5.13 Number of Fatal Fentanyl and/or Heroin Overdoses by OCME District, 2019

OCME District	Fentanyl	Heroin	Fentanyl and Heroin	Total
Central	154	41	202	397
Northern	186	17	65	268
Tidewater	107	24	129	260
Western	70	27	51	148
Total	517	109	447	1073

Figure 5.20 Percentage of Fatal Fentanyl and/or Heroin Overdoses by Manner of Death, 2019





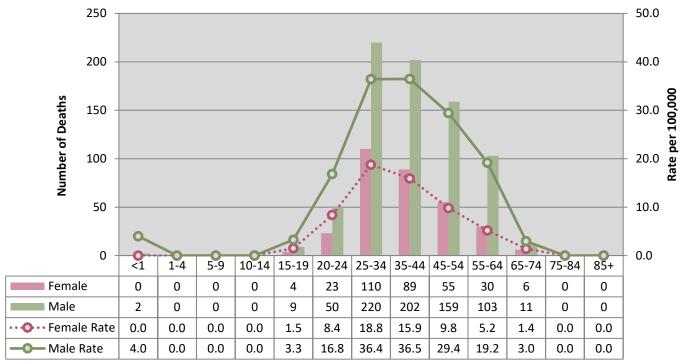


Figure 5.22 Percentage of Fatal Fentanyl and/or Heroin Overdoses by Race/Ethnicity, 2019

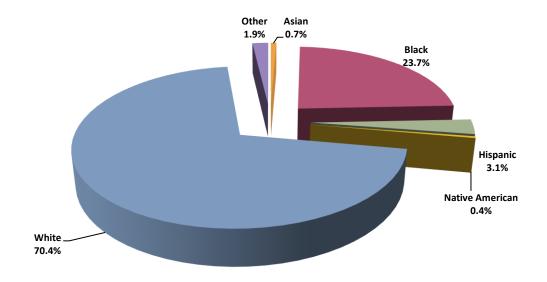




Figure 5.23 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Race/Ethnicity and Gender, 2019

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Asians and Native Americans)

Table 5.14 Number and Percentage of Fatal Fentanyl and/or Heroin Overdoses by Whether Alcohol Caused Death, 2019

Whether Alcohol Played a Role in Death	Deaths	Percentage
Yes	137	12.8%
Contributed	59	5.5%
No	877	81.7%
TOTAL	1073	100.0%

^{*}No rate can be calculated

Table 5.15 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Locality of Residence, 2019

Locality of Residence	Deaths	Rate
Accomack County	0	0.0
Albemarle County	7	6.4
Alexandria City	12	7.5
Alleghany County	1	6.7
Amelia County	5	38.0
Amherst County	4	12.7
Appomattox County	0	0.0
Arlington County	6	2.5
Augusta County	1	1.3
Bath County	0	0.0
Bedford County	4	5.1
Bland County	0	0.0
Botetourt County	4	12.0
Bristol City	2	11.9
Brunswick County	4	24.6
Buchanan County	0	0.0
Buckingham County	0	0.0
Buena Vista City	0	0.0
Campbell County	2	3.6
Caroline County	4	13.0
Carroll County	0	0.0
Charles City County	2	28.7
Charlotte County	2	16.8
Charlottesville City	4	8.5
Chesapeake City	29	11.8
Chesterfield County	79	22.4
Clarke County	3	20.5
Colonial Heights City	2	11.5
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	9	17.1
Cumberland County	0	0.0
Danville City	6	15.0
Dickenson County	1	7.0
Dinwiddie County	5	17.5
Emporia City	0	0.0
Essex County	0	0.0
Fairfax City	5	20.8
Fairfax County	62	5.4

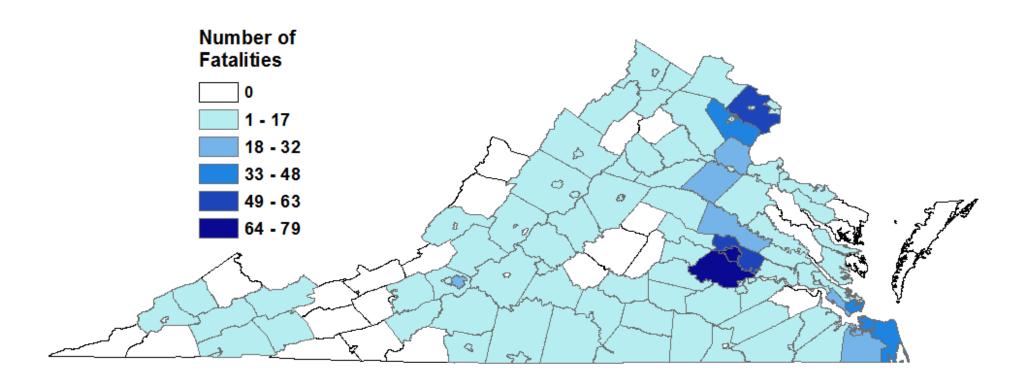
Locality of Residence	Deaths	Rate
Falls Church City	0	0.0
Fauquier County	15	21.1
Floyd County	1	6.3
Fluvanna County	0	0.0
Franklin City	1	12.6
Franklin County	5	8.9
Frederick County	8	9.0
Fredericksburg City	4	13.8
Galax City	0	0.0
Giles County	0	0.0
Gloucester County	6	16.1
Goochland County	3	12.6
Grayson County	0	0.0
Greene County	2	10.1
Greensville County	1	8.8
Halifax County	4	11.8
Hampton City	42	31.2
Hanover County	18	16.7
Harrisonburg City	5	9.4
Henrico County	54	16.3
Henry County	11	21.8
Highland County	0	0.0
Hopewell City	7	31.1
Isle of Wight County	5	13.5
James City County	6	7.8
King and Queen County	0	0.0
King George County	6	22.4
King William County	3	17.5
Lancaster County	0	0.0
Lee County	0	0.0
Lexington City	1	13.4
Loudoun County	16	3.9
Louisa County	11	29.3
Lunenburg County	1	8.2
Lynchburg City	15	18.3
Madison County	3	22.6
Manassas City	9	21.9
Manassas Park City	2	11.4
Martinsville City	5	39.8

Locality of Residence	Deaths	Rate
Mathews County	0	0.0
Mecklenburg County	3	9.8
Middlesex County	1	9.5
Montgomery County	6	6.1
Nelson County	1	6.7
New Kent County	3	13.0
Newport News City	28	15.6
Norfolk City	38	15.7
Northampton County	0	0.0
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	1	6.6
Orange County	10	27.0
Page County	0	0.0
Patrick County	0	0.0
Petersburg City	12	38.3
Pittsylvania County	5	8.3
Poquoson City	2	16.3
Portsmouth City	32	33.9
Powhatan County	6	20.2
Prince Edward County	2	8.8
Prince George County	5	13.0
Prince William County	46	9.8
Pulaski County	0	0.0
Radford City	0	0.0
Rappahannock County	0	0.0
Richmond City	72	31.2
Richmond County	1	11.1
Roanoke City	25	25.2
Roanoke County	8	8.5
Rockbridge County	1	4.4

Locality of Residence	Deaths	Rate
Rockingham County	4	4.9
Russell County	2	7.5
Salem City	4	15.8
Scott County	0	0.0
Shenandoah County	4	9.2
Smyth County	1	3.3
Southampton County	1	5.7
Spotsylvania County	29	21.3
Stafford County	24	15.7
Staunton City	1	4.0
Suffolk City	14	15.2
Surry County	0	0.0
Sussex County	1	9.0
Tazewell County	3	7.4
Virginia Beach City	40	8.9
Warren County	16	39.8
Washington County	3	5.6
Waynesboro City	1	4.4
Westmoreland County	6	33.3
Williamsburg City	1	6.7
Winchester City	5	17.8
Wise County	2	5.4
Wythe County	0	0.0
York County	12	17.6
Subtotal (in-state)	1017	11.9
Out of State	55	ND
Unknown	1	ND
Subtotal (out-of-state)	56	ND
TOTAL	1073	12.6

Note: No denominator is represented by ND.

Map 5.9 Number of Fatal Fentanyl and/or Heroin Overdoses by Locality of Residence, 2019



Map 5.10 Rates of Fatal Fentanyl and/or Heroin Overdose by Locality of Residence, 2019

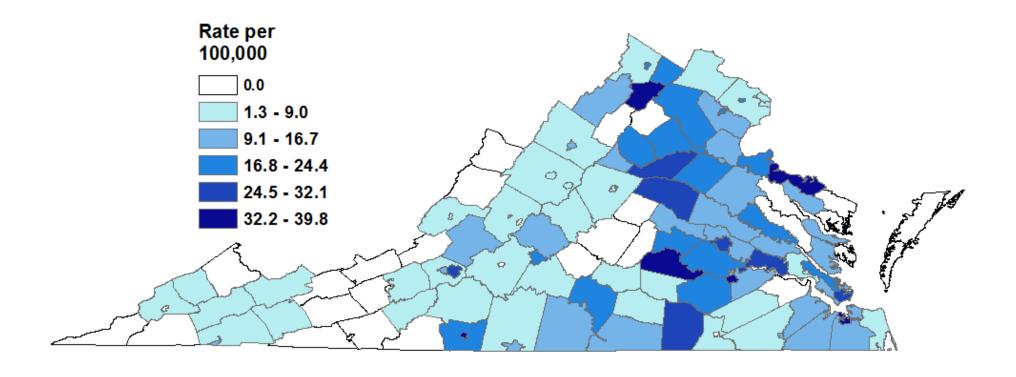


Table 5.16 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Locality of Injury, 2019

Locality of Injury	Deaths	Rate
Accomack County	0	0.0
Albemarle County	7	6.4
Alexandria City	13	8.2
Alleghany County	1	6.7
Amelia County	2	15.2
Amherst County	5	15.8
Appomattox County	0	0.0
Arlington County	9	3.8
Augusta County	1	1.3
Bath County	0	0.0
Bedford County	3	3.8
Bland County	0	0.0
Botetourt County	2	6.0
Bristol City	1	6.0
Brunswick County	6	37.0
Buchanan County	0	0.0
Buckingham County	1	5.8
Buena Vista City	0	0.0
Campbell County	3	5.5
Caroline County	4	13.0
Carroll County	0	0.0
Charles City County	2	28.7
Charlotte County	2	16.8
Charlottesville City	4	8.5
Chesapeake City	27	11.0
Chesterfield County	58	16.4
Clarke County	3	20.5
Colonial Heights City	4	23.0
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	9	17.1
Cumberland County	0	0.0
Danville City	8	20.0
Dickenson County	0	0.0
Dinwiddie County	4	14.0
Emporia City	0	0.0
Essex County	0	0.0
Fairfax City	5	20.8
Fairfax County	64	5.6
Falls Church City	0	0.0
Fauquier County	8	11.2
Floyd County	0	0.0

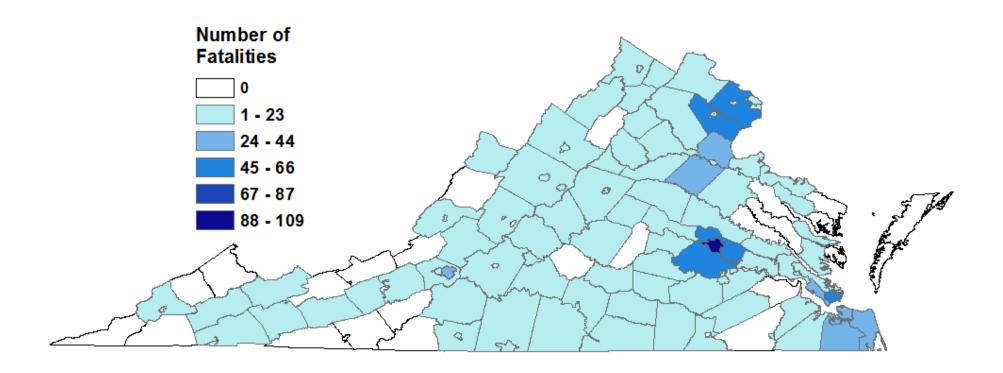
Locality of Injury	Deaths	Rate
Fluvanna County	1	3.7
Franklin City	1	12.6
Franklin County	5	8.9
Frederick County	8	9.0
Fredericksburg City	5	17.2
Galax City	0	0.0
Giles County	0	0.0
Gloucester County	5	13.4
Goochland County	3	12.6
Grayson County	0	0.0
Greene County	2	10.1
Greensville County	2	17.6
Halifax County	4	11.8
Hampton City	47	34.9
Hanover County	18	16.7
Harrisonburg City	7	13.2
Henrico County	53	16.0
Henry County	13	25.7
Highland County	1	45.7
Hopewell City	9	39.9
Isle of Wight County	3	8.1
James City County	5	6.5
King and Queen County	0	0.0
King George County	3	11.2
King William County	0	0.0
Lancaster County	0	0.0
Lee County	0	0.0
Lexington City	1	13.4
Loudoun County	16	3.9
Louisa County	7	18.6
Lunenburg County	1	8.2
Lynchburg City	16	19.5
Madison County	3	22.6
Manassas City	11	26.8
Manassas Park City	2	11.4
Martinsville City	3	23.9
Mathews County	0	0.0
Mecklenburg County	4	13.1
Middlesex County	3	28.4
Montgomery County	6	6.1
Nelson County	1	6.7
New Kent County	2	8.7

Locality of Injury	Deaths	Rate
Newport News City	29	16.2
Norfolk City	42	17.3
Northampton County	0	0.0
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	2	13.1
Orange County	8	21.6
Page County	0	0.0
Patrick County	0	0.0
Petersburg City	17	54.2
Pittsylvania County	4	6.6
Poquoson City	2	16.3
Portsmouth City	33	35.0
Powhatan County	5	16.9
Prince Edward County	1	4.4
Prince George County	3	7.8
Prince William County	52	11.1
Pulaski County	1	2.9
Radford City	0	0.0
Rappahannock County	2	27.1
Richmond City	109	47.3
Richmond County	1	11.1
Roanoke City	28	28.2
Roanoke County	9	9.6
Rockbridge County	1	4.4
Rockingham County	4	4.9
Russell County	1	3.8
Salem City	4	15.8

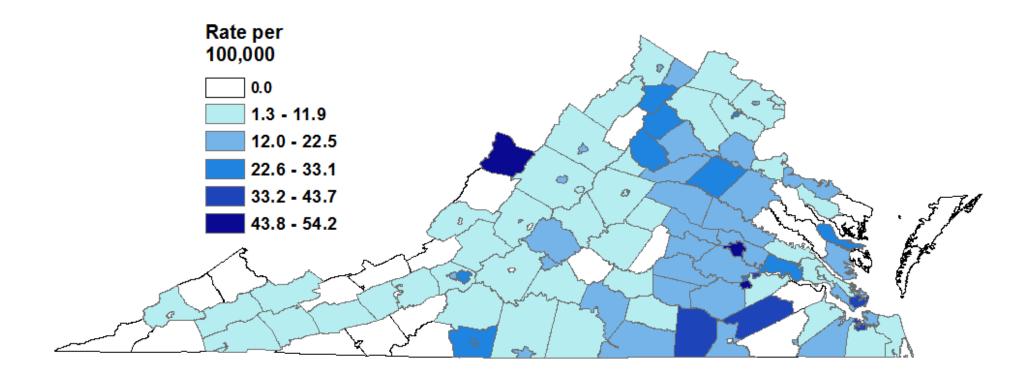
Locality of Injury	Deaths	Rate
Scott County	0	0.0
Shenandoah County	5	11.5
Smyth County	1	3.3
Southampton County	0	0.0
Spotsylvania County	35	25.7
Stafford County	23	15.0
Staunton City	3	12.0
Suffolk City	12	13.0
Surry County	0	0.0
Sussex County	4	35.8
Tazewell County	4	9.9
Virginia Beach City	40	8.9
Warren County	12	29.9
Washington County	2	3.7
Waynesboro City	1	4.4
Westmoreland County	4	22.2
Williamsburg City	1	6.7
Winchester City	6	21.4
Wise County	1	2.7
Wythe County	2	7.0
York County	6	8.8
Subtotal (in-state)	1047	12.3
Out of State	7	ND
Unknown	19	ND
Subtotal (out-of-state)	26	ND
TOTAL	1073	12.6

Note: No denominator is represented by ND.

Map 5.11 Number of Fatal Fentanyl and/or Heroin Overdoses by Locality of Injury, 2019



Map 5.12 Rates of Fatal Fentanyl and/or Heroin Overdose by Locality of Injury, 2019



ALL OPIOID DEATHS (N=1,298)

All fatal opioid overdoses include fatal overdoses that included at least fentanyl, heroin, U-47700 (a synthetic illicit opioid), and/or one or more prescription opioids. Fatal opioid overdoses increased in 2019 when compared to 2018 (68.3%) and represented 79.8% of all fatal drug overdose cases in 2019.

- Black males and males aged 25-34 years had the highest mortality rates compared to other demographic groups (25.7 and 39.7 deaths per 100,000 persons, respectively)
- Over 96% of all fatal opioid overdoses in 2019 were accidents
- Out of all opioids in 2019, fentanyl (Rx, illicit, and analogs) was responsible for the largest number of deaths (74.3%)

Figure 5.24 Number and Rate of All Fatal Opioid Overdoses Year of Death, 2007-2019

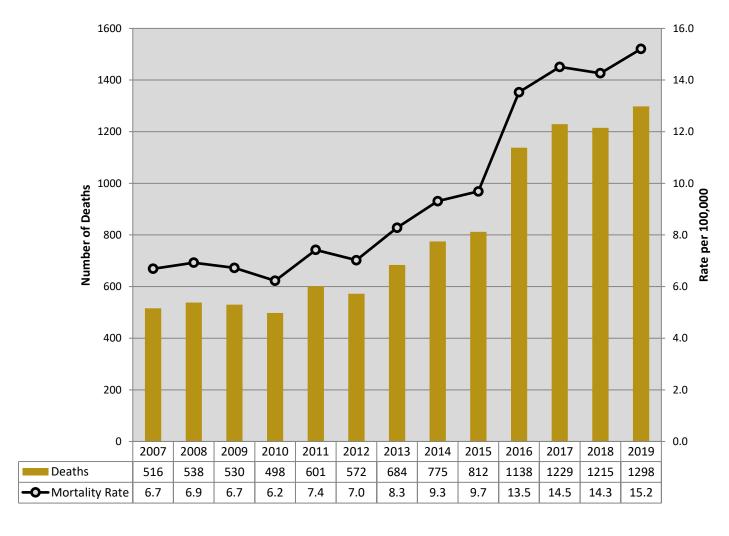
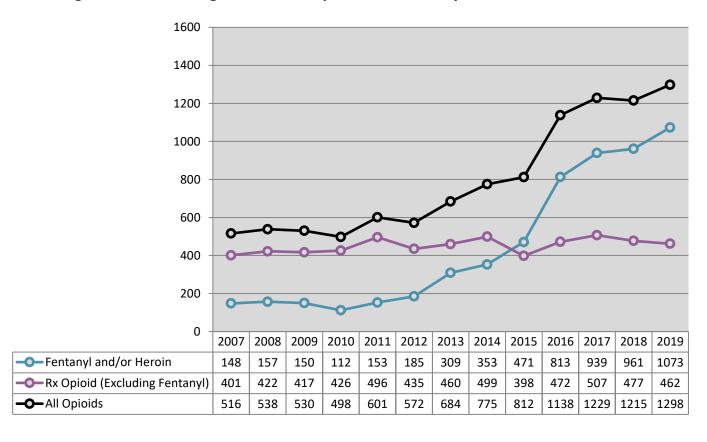


Table 5.17 Number of All Fatal Opioid Overdoses by Combination and OCME District, 2019

Drug Combination	Central	Northern	Tidewater	Western	Total
Fentanyl and/or heroin	336	189	188	108	821
Fentanyl and/or heroin and one more prescription opioids (excluding fentanyl)	61	79	72	40	252
One or more prescription opioids (excluding fentanyl)	51	48	32	79	210
Opioids unspecified	2	7	3	3	15
Total	450	323	295	230	1298

Figure 5.25 Percentage of All Fatal Opioid Overdoses by Manner of Death, 2019



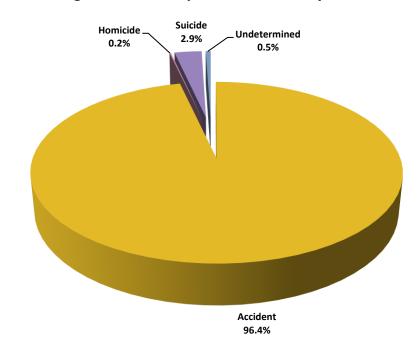
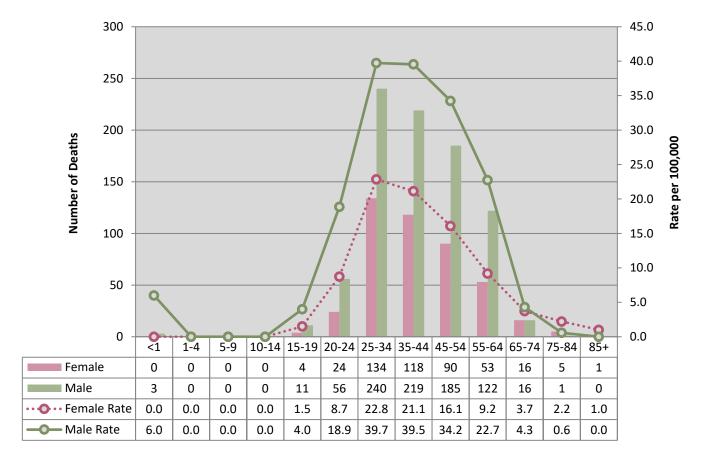


Figure 5.26 Percentage of All Fatal Opioid Overdoses by Manner of Death, 2019

Figure 5.27 Number and Rate of All Fatal Opioid Overdoses by Age Group and Gender, 2019



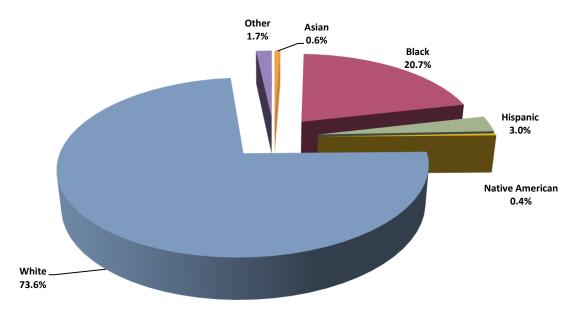
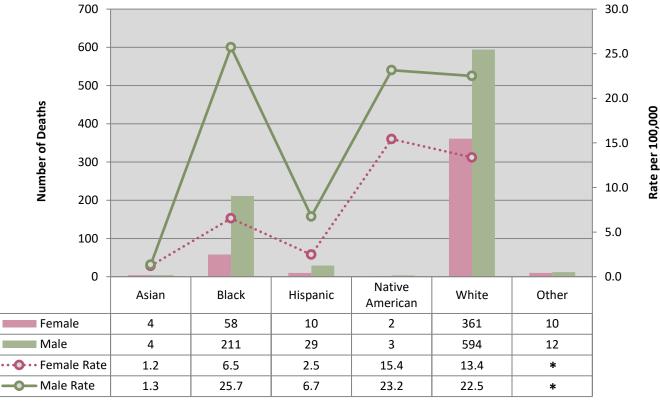


Figure 5.28 Percentage of All Fatal Opioid Overdoses by Race/Ethnicity, 2019

Figure 5.29 Number and Rate of All Fatal Opioid Overdoses by Race/Ethnicity and Gender, 2019



^{*}No rate can be calculated

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Asians and Native Americans)

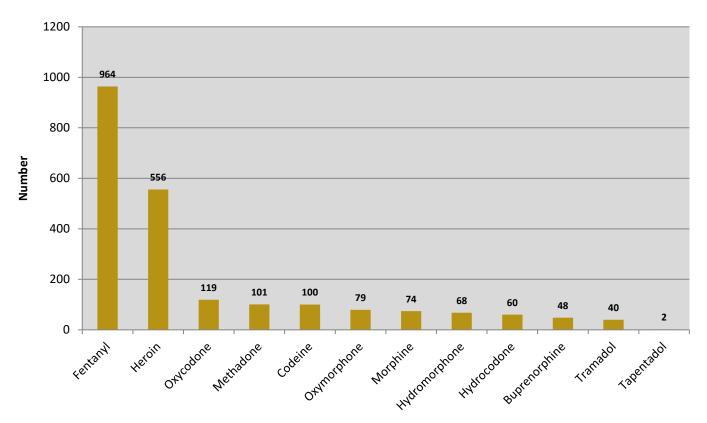


Figure 5.30 Number of Opioids Causing or Contributing to Fatal Opioid Overdoses, 2019

Table 5.18 Number and Percentage of All Fatal Opioid Overdoses by Whether Alcohol Caused

Death, 2019

Whether Alcohol Played a Role in Death	Deaths	Percentage
Yes	157	12.1%
Contributed	68	5.2%
No	1073	82.7%
TOTAL	1298	100.0%

Table 5.19 Number of All Fatal Opioid Overdoses by Locality of Residence, 2019

Locality of Residence	Deaths	Rate
Accomack County	1	3.1
Albemarle County	8	7.3
Alexandria City	13	8.2
Alleghany County	1	6.7
Amelia County	6	45.6
Amherst County	4	12.7
Appomattox County	2	12.6
Arlington County	9	3.8
Augusta County	4	5.3
Bath County	0	0.0
Bedford County	5	6.3
Bland County	0	0.0
Botetourt County	6	18.0
Bristol City	3	17.9
Brunswick County	5	30.8
Buchanan County	2	9.5
Buckingham County	1	5.8
Buena Vista City	0	0.0
Campbell County	3	5.5
Caroline County	5	16.3
Carroll County	2	6.7
Charles City County	3	43.1
Charlotte County	3	25.3
Charlottesville City	4	8.5
Chesapeake City	38	15.5
Chesterfield County	87	24.7
Clarke County	3	20.5
Colonial Heights City	3	17.3
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	10	19.0
Cumberland County	0	0.0
Danville City	7	17.5
Dickenson County	4	27.9
Dinwiddie County	6	21.0
Emporia City	0	0.0
Essex County	0	0.0
Fairfax City	6	25.0
Fairfax County	76	6.6
Falls Church City	0	0.0
Fauquier County	17	23.9
Floyd County	1	6.3
Fluvanna County	1	3.7
Virginia Donartment of Health		

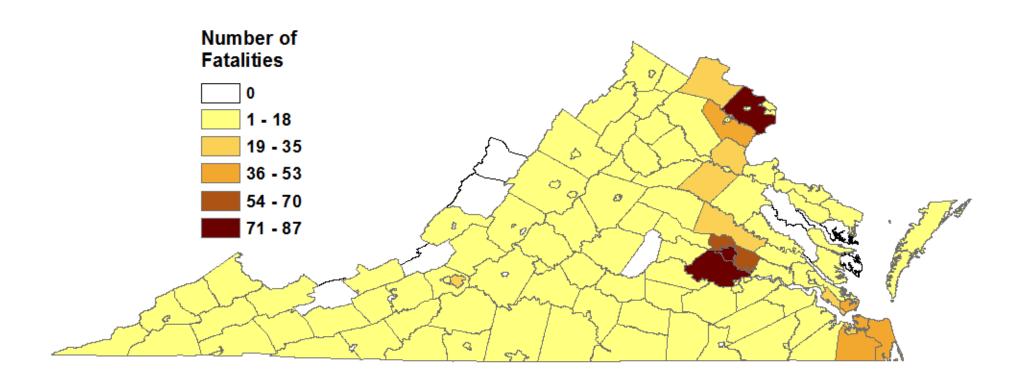
Locality of Residence	Deaths	Rate
Franklin City	1	12.6
Franklin County	5	8.9
Frederick County	10	11.2
Fredericksburg City	5	17.2
Galax City	0	0.0
Giles County	1	6.0
Gloucester County	6	16.1
Goochland County	3	12.6
Grayson County	1	6.4
Greene County	3	15.1
Greensville County	1	8.8
Halifax County	5	14.7
Hampton City	46	34.2
Hanover County	22	20.4
Harrisonburg City	5	9.4
Henrico County	58	17.5
Henry County	15	29.7
Highland County	0	0.0
Hopewell City	9	39.9
Isle of Wight County	7	18.9
James City County	8	10.5
King and Queen County	0	0.0
King George County	7	26.1
King William County	3	17.5
Lancaster County	0	0.0
Lee County	2	8.5
Lexington City	1	13.4
Loudoun County	19	4.6
Louisa County	13	34.6
Lunenburg County	1	8.2
Lynchburg City	17	20.7
Madison County	4	30.2
Manassas City	10	24.3
Manassas Park City	2	11.4
Martinsville City	5	39.8
Mathews County	0	0.0
Mecklenburg County	4	13.1
Middlesex County	1	9.5
Montgomery County	10	10.1
Nelson County	3	20.1
New Kent County	3	13.0
Newport News City	30	16.7
Norfolk City	41	16.9

Locality of Residence	Deaths	Rate
Northampton County	1	8.5
Northumberland County	1	8.3
Norton City	1	25.1
Nottoway County	2	13.1
Orange County	10	27.0
Page County	2	8.4
Patrick County	2	11.4
Petersburg City	13	41.5
Pittsylvania County	7	11.6
Poquoson City	2	16.3
Portsmouth City	34	36.0
Powhatan County	7	23.6
Prince Edward County	2	8.8
Prince George County	6	15.6
Prince William County	51	10.8
Pulaski County	9	26.4
Radford City	0	0.0
Rappahannock County	1	13.6
Richmond City	77	33.4
Richmond County	2	22.2
Roanoke City	28	28.2
Roanoke County	8	8.5
Rockbridge County	1	4.4
Rockingham County	5	6.1
Russell County	3	11.3
Salem City	5	19.8
Scott County	2	9.3

Locality of Residence	Deaths	Rate
Shenandoah County	6	13.8
Smyth County	2	6.6
Southampton County	1	5.7
Spotsylvania County	31	22.8
Stafford County	28	18.3
Staunton City	1	4.0
Suffolk City	14	15.2
Surry County	1	15.6
Sussex County	2	17.9
Tazewell County	10	24.6
Virginia Beach City	44	9.8
Warren County	18	44.8
Washington County	4	7.4
Waynesboro City	1	4.4
Westmoreland County	7	38.9
Williamsburg City	1	6.7
Winchester City	9	32.1
Wise County	9	24.1
Wythe County	1	3.5
York County	13	19.0
Subtotal (in-state)	1221	14.3
Out of State	75	ND
Unknown	2	ND
Subtotal (out-of-state)	77	ND
TOTAL	1298	15.2

Note: No denominator is represented by ND.

Map 5.13 Number of All Fatal Opioid Overdoses by Locality of Residence, 2019



Map 5.14 Rates of All Fatal Opioid Overdoses by Locality of Residence, 2019

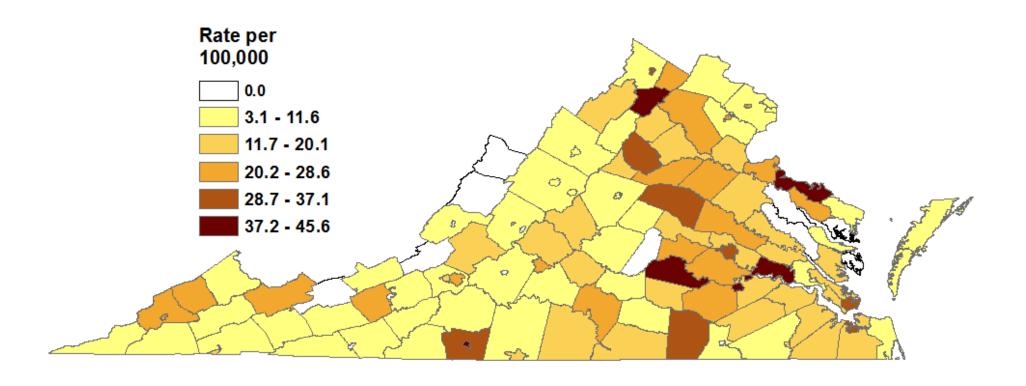


Table 5.20 Number and Rate of All Fatal Opioid Overdoses by Locality of Injury, 2019

Locality of Injury	Deaths	Rate
Accomack County	1	3.1
Albemarle County	7	6.4
Alexandria City	14	8.8
Alleghany County	1	6.7
Amelia County	3	22.8
Amherst County	5	15.8
Appomattox County	2	12.6
Arlington County	13	5.5
Augusta County	5	6.6
Bath County	0	0.0
Bedford County	4	5.1
Bland County	0	0.0
Botetourt County	2	6.0
Bristol City	2	11.9
Brunswick County	7	43.1
Buchanan County	2	9.5
Buckingham County	2	11.7
Buena Vista City	0	0.0
Campbell County	4	7.3
Caroline County	5	16.3
Carroll County	3	10.1
Charles City County	3	43.1
Charlotte County	2	16.8
Charlottesville City	5	10.6
Chesapeake City	34	13.9
Chesterfield County	66	18.7
Clarke County	4	27.4
Colonial Heights City	5	28.8
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	9	17.1
Cumberland County	0	0.0
Danville City	10	25.0
Dickenson County	3	21.0
Dinwiddie County	5	17.5
Emporia City	0	0.0
Essex County	1	9.1
Fairfax City	5	20.8
Fairfax County	78	6.8
Falls Church City	0	0.0
Fauquier County	10	14.0
Floyd County	0	0.0
Fluvanna County	3	11.0

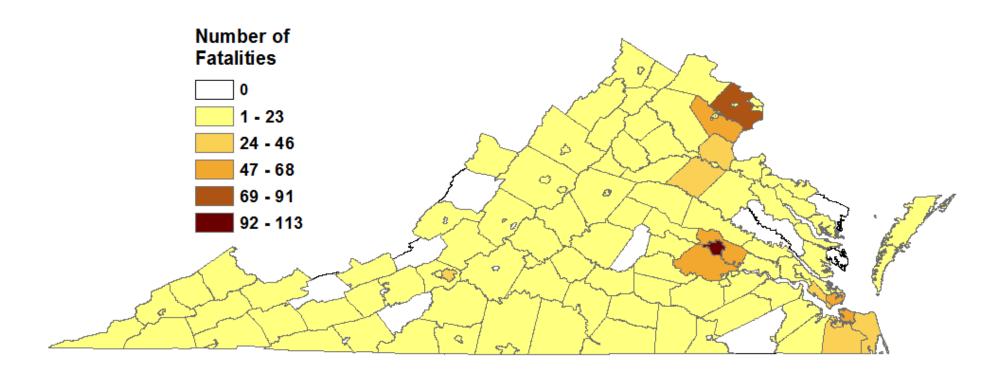
Locality of Injury	Deaths	Rate
Franklin City	1	12.6
Franklin County	6	10.7
Frederick County	13	14.6
Fredericksburg City	6	20.7
Galax City	0	0.0
Giles County	1	6.0
Gloucester County	5	13.4
Goochland County	3	12.6
Grayson County	1	6.4
Greene County	3	15.1
Greensville County	2	17.6
Halifax County	4	11.8
Hampton City	51	37.9
Hanover County	22	20.4
Harrisonburg City	7	13.2
Henrico County	59	17.8
Henry County	16	31.6
Highland County	1	45.7
Hopewell City	10	44.4
Isle of Wight County	5	13.5
James City County	7	9.1
King and Queen County	0	0.0
King George County	4	14.9
King William County	0	0.0
Lancaster County	1	9.4
Lee County	2	8.5
Lexington City	1	13.4
Loudoun County	20	4.8
Louisa County	9	23.9
Lunenburg County	1	8.2
Lynchburg City	18	21.9
Madison County	4	30.2
Manassas City	12	29.2
Manassas Park City	2	11.4
Martinsville City	4	31.9
Mathews County	0	0.0
Mecklenburg County	5	16.3
Middlesex County	3	28.4
Montgomery County	9	9.1
Nelson County	1	6.7
New Kent County	2	8.7
Newport News City	31	17.3
Norfolk City	48	19.8

Locality of Injury	Deaths	Rate
Northampton County	1	8.5
Northumberland County	0	0.0
Norton City	1	25.1
Nottoway County	4	26.3
Orange County	8	21.6
Page County	2	8.4
Patrick County	2	11.4
Petersburg City	18	57.4
Pittsylvania County	6	9.9
Poquoson City	2	16.3
Portsmouth City	36	38.1
Powhatan County	5	16.9
Prince Edward County	1	4.4
Prince George County	4	10.4
Prince William County	57	12.1
Pulaski County	11	32.3
Radford City	0	0.0
Rappahannock County	3	40.7
Richmond City	113	49.0
Richmond County	1	11.1
Roanoke City	33	33.3
Roanoke County	11	11.7
Rockbridge County	1	4.4
Rockingham County	5	6.1
Russell County	2	7.5
Salem City	6	23.7
Scott County	2	9.3

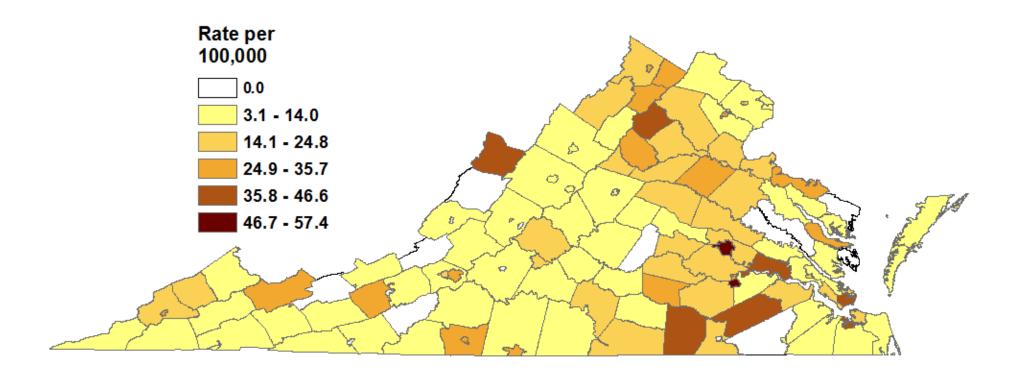
Locality of Injury	Deaths	Rate
Shenandoah County	7	16.0
Smyth County	2	6.6
Southampton County	0	0.0
Spotsylvania County	39	28.6
Stafford County	27	17.7
Staunton City	3	12.0
Suffolk City	12	13.0
Surry County	1	15.6
Sussex County	5	44.8
Tazewell County	12	29.6
Virginia Beach City	44	9.8
Warren County	13	32.4
Washington County	3	5.6
Waynesboro City	1	4.4
Westmoreland County	5	27.8
Williamsburg City	3	20.1
Winchester City	9	32.1
Wise County	8	21.4
Wythe County	2	7.0
York County	7	10.3
Subtotal (in-state)	1263	14.8
Out of State	15	ND
Unknown	20	ND
Subtotal (out-of-state)	35	ND
TOTAL	1298	15.2

Note: No denominator is represented by ND.

Map 5.15 Number of All Fatal Opioid Overdoses by Locality of Injury, 2019



Map 5.16 Rates of All Fatal Opioid Overdoses by Locality of Injury, 2019

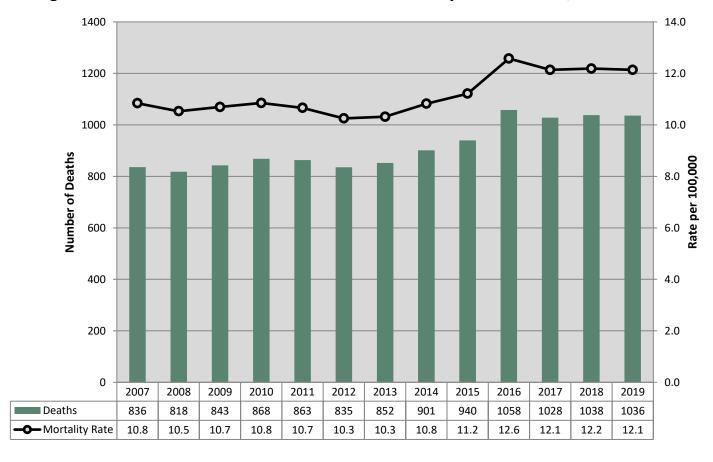


SECTION 6: GUN-RELATED DEATHS (N=1,036)

Gun-related fatalities continue to be one of the top three methods of unnatural death in Virginia since 2007. Generally, the number of gun-related suicides slowly increase each year, and since 2012, gun-related homicides slowly increased. In 2019, gun-related deaths of all manners were nearly identical to those of 2018

- The majority (64.4%) of gun related deaths were due to suicide
- The Northern OCME region had the lowest number and the lowest rate of gun-related death of all manners (6.3 deaths per 100,000 persons) compared to all other OCME district offices
- Males (84.1%), 25-34 year olds (19.6%), and Whites (64.0%) had the largest number of gun-related deaths; however, males aged 85+ years of age and Black males had the highest rate of gun-related death (42.0 and 35.2 deaths per 100,000 persons, respectively)

Figure 6.1 Number and Rate of Gun-Related Deaths by Year of Death, 2007-2019



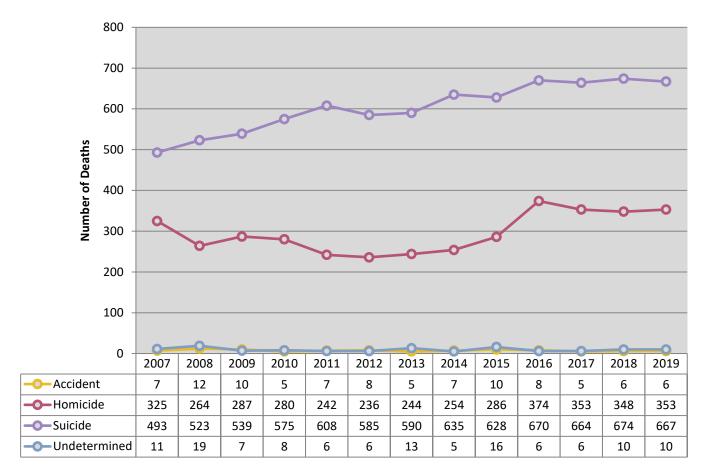


Figure 6.2 Number of Gun-Related Deaths by Year and Manner of Death, 2007-2019

Figure 6.3 Percentage of Gun-Related Deaths by Manner of Death, 2019

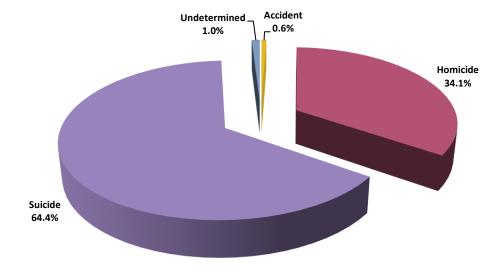


Table 6.1 Number and Rate of Gun-Related Deaths by OCME District and Manner of Death, 2019

Manner of Death	Cer	itral	Nort	:hern	Tide	water	Wes	tern	TO	TAL
ivialiller of Death	n	rate	n	rate	n	rate	n	rate	n	rate
Accident	3	0.1	1	0.0	1	0.1	1	0.1	6	0.1
Homicide	121	5.2	37	1.3	133	8.2	62	3.8	353	4.1
Suicide	187	8.0	146	5.0	152	9.4	182	11.1	667	7.8
Undetermined	5	0.2	3	0.1	2	0.1	0	0.0	10	0.1
TOTAL	316	13.6	187	6.3	288	17.7	245	15.0	1036	12.1

Table 6.2 Number of Gun-Related Deaths by Gun Type and Manner of Death, 2019

Manner of Death	Handgun	Multiple*	Rifle	Shotgun	Other	Unknown	Total
Accident	3	0	1	1	0	1	6
Homicide	267	2	14	9	0	61	353
Suicide	552	0	42	69	2	2	667
Undetermined	8	0	0	1	0	1	10
Total	830	2	57	80	2	65	1036

Note: 'Multiple' indicates the decedent died of more than one gun; either more than one gun type (e.g. a handgun and a shotgun) or same gun type but multiple weapons (e.g. two handguns)

Figure 6.4 Percentage of Gun-Related Deaths by Gender, 2019

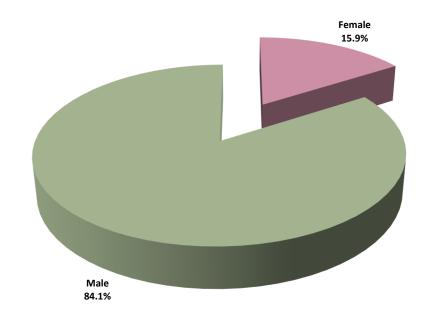
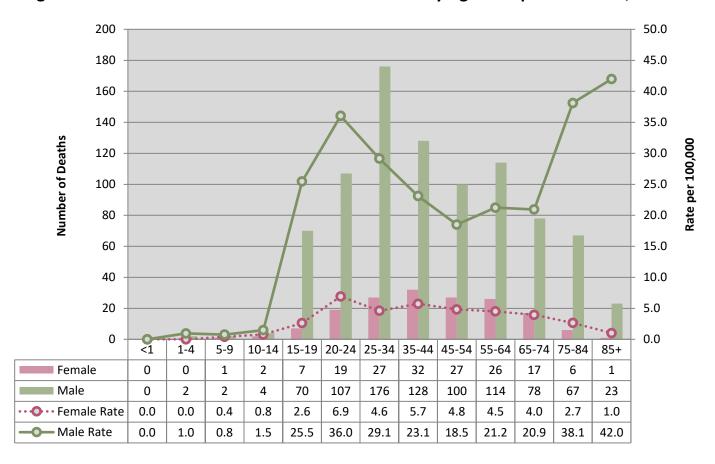


Figure 6.5 Number and Rate of Gun-Related Deaths by Age Group and Gender, 2019



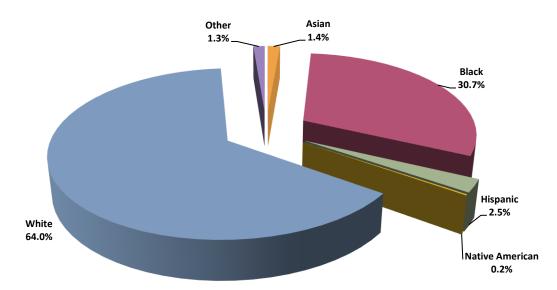
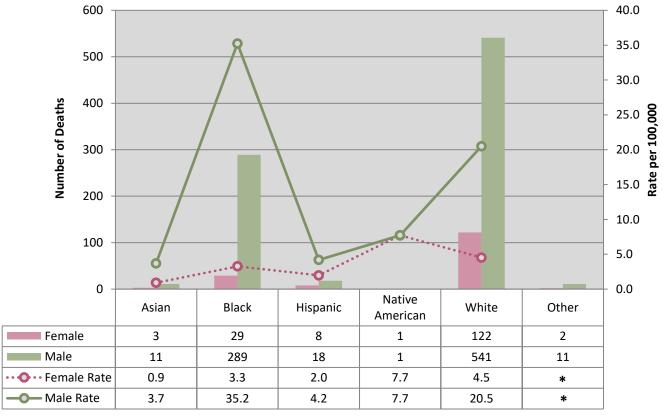


Figure 6.6 Percentage of Gun-Related Deaths by Race/Ethnicity, 2019

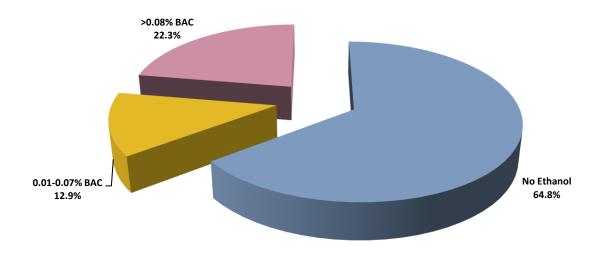
Figure 6.7 Number and Rate of Gun-Related Deaths by Race/Ethnicity and Gender, 2019



^{*}No rate can be calculated

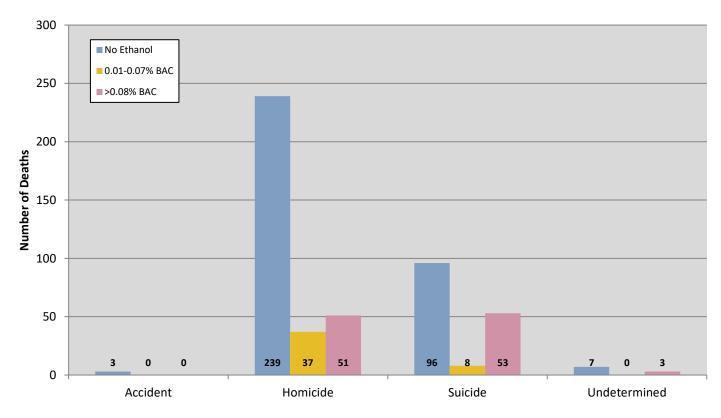
Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Asian females and Native Americans)

Figure 6.8 Percentage of Gun-Related Deaths by Ethanol Level (N=497), 2019



Note: Of the 1,036 gun related fatalities, 52.0% (n=539) did not receive alcohol testing

Figure 6.9 Number of Gun-Related Deaths by Alcohol Level and Manner of Death (N=497), 2019



Note: Of the 1,036 gun related fatalities, 52.0% (n=539) did not receive alcohol testing

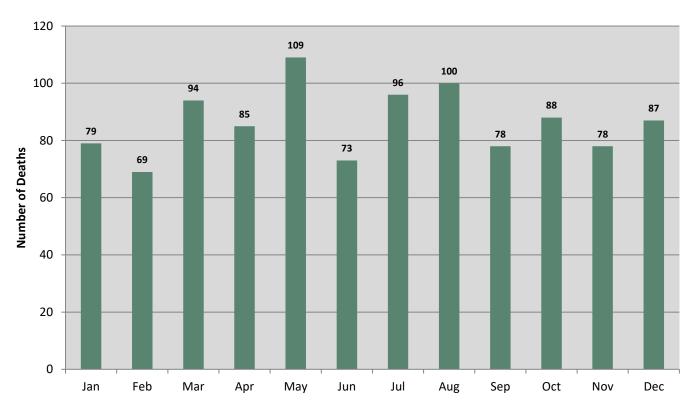


Figure 6.10 Number of Gun-Related Deaths by Month of Death, 2019

Figure 6.11 Number of Gun-Related Deaths by Day of Week, 2019

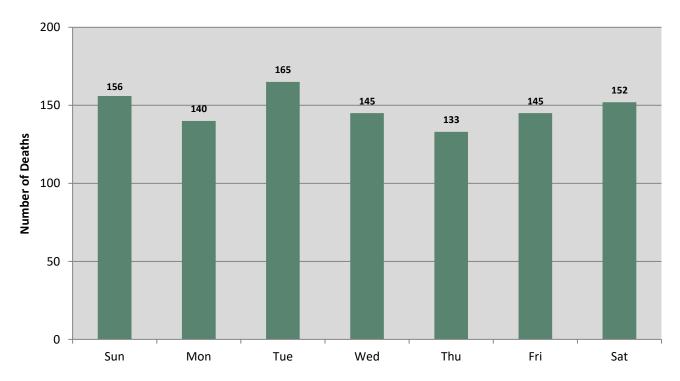


Table 6.3 Number and Rate of Gun-Related Deaths by Locality of Residence, 2019

Locality of Residence	Deaths	Rate
Accomack County	3	9.3
Albemarle County	5	4.6
Alexandria City	5	3.1
Alleghany County	3	20.2
Amelia County	3	22.8
Amherst County	6	19.0
Appomattox County	2	12.6
Arlington County	5	2.1
Augusta County	6	7.9
Bath County	1	24.1
Bedford County	13	16.5
Bland County	1	15.9
Botetourt County	5	15.0
Bristol City	2	11.9
Brunswick County	1	6.2
Buchanan County	5	23.8
Buckingham County	4	23.3
Buena Vista City	2	30.9
Campbell County	7	12.8
Caroline County	4	13.0
Carroll County	7	23.5
Charles City County	2	28.7
Charlotte County	2	16.8
Charlottesville City	1	2.1
Chesapeake City	36	14.7
Chesterfield County	55	15.6
Clarke County	1	6.8
Colonial Heights City	5	28.8
Covington City	1	18.1
Craig County	0	0.0
Culpeper County	5	9.5
Cumberland County	1	10.1
Danville City	8	20.0
Dickenson County	5	34.9
Dinwiddie County	3	10.5
Emporia City	1	18.7
Essex County	3	27.4
Fairfax City	1	4.2
Fairfax County	55	4.8
Falls Church City	0	0.0
Fauquier County	4	5.6

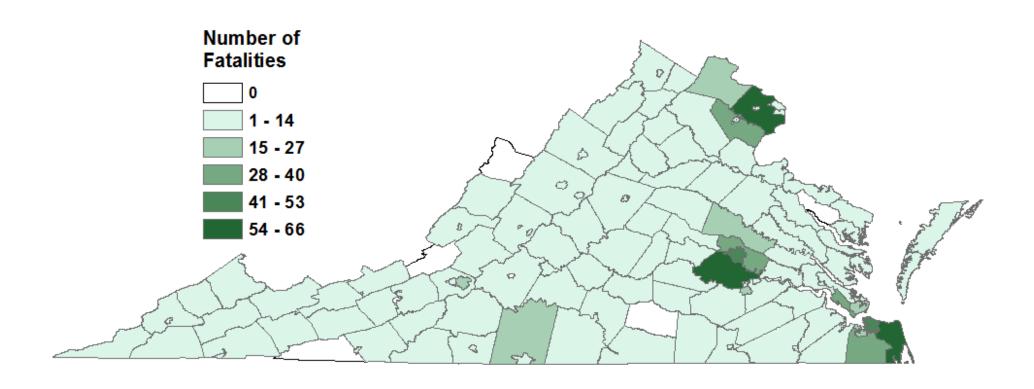
Locality of Residence	Deaths	Rate
Floyd County	2	12.7
Fluvanna County	5	18.3
Franklin City	1	12.6
Franklin County	7	12.5
Frederick County	11	12.3
Fredericksburg City	5	17.2
Galax City	2	31.5
Giles County	1	6.0
Gloucester County	5	13.4
Goochland County	3	12.6
Grayson County	0	0.0
Greene County	4	20.2
Greensville County	1	8.8
Halifax County	6	17.7
Hampton City	25	18.6
Hanover County	17	15.8
Harrisonburg City	2	3.8
Henrico County	38	11.5
Henry County	12	23.7
Highland County	0	0.0
Hopewell City	6	26.6
Isle of Wight County	5	13.5
James City County	7	9.1
King and Queen County	2	28.5
King George County	1	3.7
King William County	6	35.0
Lancaster County	3	28.3
Lee County	5	21.3
Lexington City	0	0.0
Loudoun County	18	4.4
Louisa County	9	23.9
Lunenburg County	0	0.0
Lynchburg City	5	6.1
Madison County	3	22.6
Manassas City	2	4.9
Manassas Park City	0	0.0
Martinsville City	4	31.9
Mathews County	1	11.3
Mecklenburg County	5	16.3
Middlesex County	3	28.4
Montgomery County	6	6.1

Locality of Residence	Deaths	Rate
Nelson County	4	26.8
New Kent County	1	4.3
Newport News City	37	20.6
Norfolk City	45	18.5
Northampton County	3	25.6
Northumberland County	5	41.3
Norton City	0	0.0
Nottoway County	1	6.6
Orange County	5	13.5
Page County	1	4.2
Patrick County	6	34.1
Petersburg City	17	54.2
Pittsylvania County	15	24.9
Poquoson City	2	16.3
Portsmouth City	19	20.1
Powhatan County	6	20.1
Prince Edward County	2	8.8
Prince George County	4	10.4
Prince William County	31	6.6
Pulaski County	5	14.7
Radford City	0	0.0
Rappahannock County	4	54.3
Richmond City	45	19.5
Richmond County	0	0.0
Roanoke City	17	17.1
Roanoke County	11	11.7
Rockbridge County	2	8.9
Rockingham County	11	13.4
Russell County	5	18.8
Salem City	2	7.9
Scott County	5	23.2
Shenandoah County	8	18.3
Smyth County	6	19.9
Southampton County	5	28.4
Spotsylvania County	10	7.3
Stafford County	8	5.2
Staunton City	3	12.0
Suffolk City	14	15.2
Surry County	1	15.6
Sussex County	3	26.9
Tazewell County	3	7.4
Virginia Beach City	66	14.7
Warren County	10	
waiten county	10	24.9

Locality of Residence	Deaths	Rate
Washington County	5	9.3
Waynesboro City	2	8.8
Westmoreland County	3	16.7
Williamsburg City	1	6.7
Winchester City	1	3.6
Wise County	2	5.4
Wythe County	5	17.4
York County	4	5.9
Subtotal (in-state)	988	11.6
Out of State	46	ND
Unknown	2	ND
Subtotal (out-of-state)	48	ND
TOTAL	1036	12.1

Note: No denominator is represented by ND

Map 6.1 Number of Gun-Related Deaths by Locality of Residence, 2019



Map 6.2 Rates of Gun-Related Death by Locality of Residence, 2019

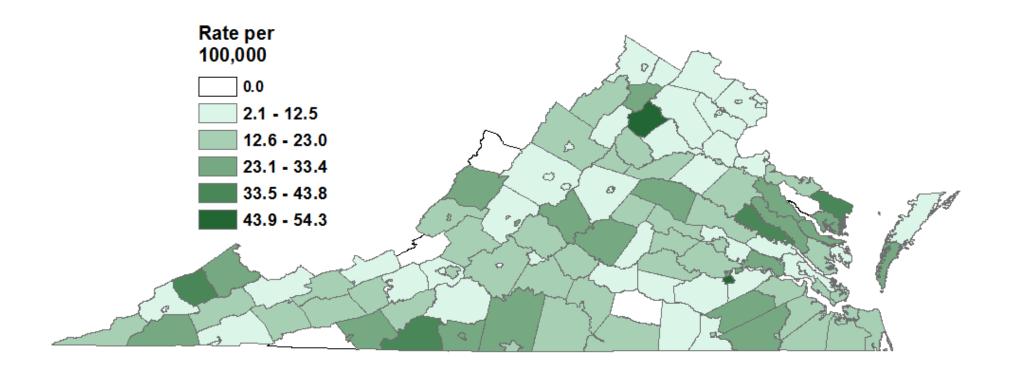


Table 6.4 Number and Rate of Gun-Related Deaths by Locality of Injury, 2019

Accomack County 5 15.5 Albemarle County 5 4.6 Alexandria City 5 3.1 Alleghany County 3 20.2 Amelia County 6 19.0 Appomattox County 6 19.0 Appomattox County 8 3.4 Augusta County 6 7.9 Bath County 1 24.1 Bedford County 1 3.4 Augusta County 1 24.1 Bedford County 1 3.6.5 Bland County 1 15.9 Botetourt County 7 20.9 Bristol City 2 11.9 Brunswick County 1 6.2 Buckingham County 4 23.3 Buckingham County 4 23.3 Buckingham County 4 23.3 Buena Vista City 2 28.6 Buckingham County 9 16.4 Carolic County 5 16.3	Locality of Injury	Deaths	Rate
Alexandria City 5 3.1 Alleghany County 3 20.2 Amelia County 6 19.0 Appomattox County 2 12.6 Arlington County 8 3.4 Augusta County 1 24.1 Bedford County 1 15.9 Botetourt County 1 15.9 Brunswick County 1 16.2 Buchanan County 1 16.2 Buchanan County 1 15.4 Campbell County 1 15.4 Caroline County 1 15.4 Caroll County 1 15.4 County 1 15.4 County 1 16.3 Carroll County 1 16.3 Carroll County 1 16.3 Carroll County 1 16.3 Caroll County 1 16.3 Chesterfield County 1 16.3 Covington City 1 18.1 Craig County 1 18.7 Essex County 1 18.7	Accomack County	5	15.5
Alleghany County 3 20.2 Amelia County 3 22.8 Amherst County 6 19.0 Appomattox County 2 12.6 Arlington County 8 3.4 Augusta County 6 7.9 Bath County 1 24.1 Bedford County 13 16.5 Bland County 1 15.9 Botetourt County 7 20.9 Bristol City 2 11.9 Brunswick County 1 6.2 Buchanan County 6 28.6 Buckingham County 4 23.3 Buena Vista City 1 15.4 Campbell County 9 16.4 Caroline County 5 16.3 Carroll County 6 20.1 Charles City County 2 28.7 Charlotte County 0 0.0 Charlotte County 0 0.0 Charlotte County 2 13.1 Chesapeake City 3 13.1 Chesterfield Count	Albemarle County	5	4.6
Amelia County 3 22.8 Amherst County 6 19.0 Appomattox County 2 12.6 Arlington County 8 3.4 Augusta County 6 7.9 Bath County 1 24.1 Bedford County 13 16.5 Bland County 1 15.9 Botetourt County 7 20.9 Bristol City 2 11.9 Brunswick County 1 6.2 Buchanan County 6 28.6 Buckingham County 4 23.3 Buena Vista City 1 15.4 Campbell County 9 16.4 Carroll County 5 16.3 Carroll County 6 20.1 Charles City County 2 28.7 Charles City County 2 28.7 Charlete County 0 0.0 Charlete County 2 13.7 Colonial Heights City 4 23.0 </td <td>Alexandria City</td> <td>5</td> <td>3.1</td>	Alexandria City	5	3.1
Amherst County 6 19.0 Appomattox County 2 12.6 Arlington County 8 3.4 Augusta County 6 7.9 Bath County 1 24.1 Bedford County 13 16.5 Bland County 1 15.9 Botetourt County 7 20.9 Bristol City 2 11.9 Brunswick County 1 6.2 Buchanan County 6 28.6 Buckingham County 4 23.3 Buena Vista City 1 15.4 Campbell County 9 16.4 Carroline County 9 16.4 Carroll County 6 20.1 Charles City County 2 28.7 Charles City County 2 28.7 Charlotte County 0 0.0 Charlottesville City 2 4.2 Chesapeake City 32 13.1 Chesterfield County 4 23.0 <td>Alleghany County</td> <td>3</td> <td>20.2</td>	Alleghany County	3	20.2
Appomattox County Arlington County Augusta County Bath County Bedford County Bedford County Botetourt County Brunswick County Buchanan County	Amelia County	3	22.8
Arlington County Augusta County Bath County Bath County Bedford County Bedford County Botetourt County Bristol City Brunswick County Buchanan Buchan Buchanan Buchan Buchanan Buchan Buchanan Buchan Buch	Amherst County	6	19.0
Augusta County Bath County Bedford County Bedford County Bland County Botetourt County Bristol City Brunswick County Buchanan	Appomattox County	2	12.6
Bath County Bedford County Bedford County Bland County Botetourt County Bristol City Brunswick County Brunswick County Buchanan County Buckingham	Arlington County	8	3.4
Bedford County Bland County Bland County Botetourt County Fristol City Brunswick County Brunswick County Buchanan County Buckingham County Buckingham County Buckingham County Buckingham County Buena Vista City Campbell County Caroline County Caroline County Charles City County Charlotte County Charlottesville City Chesapeake City Clarke County Colonial Heights City Covington City Culpeper County Dinwiddie County Dinwiddie County Dinwiddie County Sales Essex County Fairfax City Falls Church City Falls Church City Fauquier County Fauquier Gase Fire Accity Fairfax City Fairfax City Fairfax City Fairfax County Fauquier County Fauquier County Fauquier County Fauquier Gase Fire Accity Fairfax City Fairfax	Augusta County	6	7.9
Bland County Botetourt County 7 20.9 Bristol City 2 11.9 Brunswick County 1 6.2 Buchanan County 6 28.6 Buckingham County 4 23.3 Buena Vista City 1 15.4 Campbell County 9 16.4 Caroline County 5 16.3 Carroll County 6 20.1 Charles City County 2 28.7 Charlotte County 0 0.0 Charlottesville City 2 4.2 Chesapeake City 32 13.1 Chesterfield County 4 12.5 Clarke County 2 13.7 Colonial Heights City 4 23.0 Covington City 1 18.1 Craig County 0 0.0 Culpeper County 5 9.5 Cumberland County 5 9.5 Cumberland County 5 34.9 Dinwiddie County 3 10.5 Emporia City 1 18.7 Essex County 3 27.4 Fairfax City 1 4.2 Fairfax County 5 0.0 Fauquier County 5 0.0 Fauquier County 5 1.6 Floyd County 1.7 Floyd	Bath County	1	24.1
Botetourt County Bristol City Bristol City Brunswick County Buchanan County Buckingham County Buena Vista City Campbell County Caroline County Charles City County Charlotte County Charlotte Sille City Clarke County Clarke County Covington City Cumberland County Dinwiddie County Dinwiddie County Dinwiddie County Dinwiddie County Diagram Sales Emporia City Essex County Falls Church City Falls Church City Falls Church City Dickenson County Falls Church City Falls Church City Falls Church City Falls Church City Dickenson County Fauquier County Floyd County For Dinwiddie County Fauquier County Floyd County For Dinwiddie County For Dinwi	Bedford County	13	16.5
Bristol City Brunswick County Brunswick County Buchanan County Buckingham County Buena Vista City Campbell County Caroline County Charles City County Charlotte County Charlottesville City Clarke County Clarke County Colonial Heights City Craig County Culpeper County Dinwiddie County Dinwiddie County Dinwiddie County Dinwiddie County Diractor City Pale County Diractor City Dickenson County Diractor Ci	Bland County	1	15.9
Brunswick County Buchanan County Buckingham County Buckingham County Buena Vista City Campbell County Caroline County Carroll County Charles City County Charlotte County Charlotte County Charlotte County Charlotte County Charlottesville City Chesapeake City Clarke County Clarke County Covington City Craig County Culpeper County Dinwiddie County Dinwiddie County Dinwiddie County Fairfax City Falls Church City Falls Church City Fauquier County 5 28.7 16.3 20.1 28.7 20.1 28.7 28.7 29.7 20.0 20.0 20.0 21.1 22.5 24.2 24.2 25.0 26.0 27.4 27.4 28.7 29.5 20.1 20.0 2	Botetourt County	7	20.9
Buckingham County Buckingham County Buena Vista City Campbell County Caroline County Caroline County Charles City County Charlotte County Charlottesville City Clarke County Clarke County Colonial Heights City County Culpeper County Danville City Dickenson County Dinwiddie County Essex County Fairfax City Falls Church City Falls Church City Falls County Cassa County Cassa Carroll County	Bristol City	2	11.9
Buckingham County Buena Vista City Campbell County Caroline County Carroll County Charles City County Charlotte County Charlottesville City Chesapeake City Clarke County Clarke County Covington City Culpeper County Culpeper County Dinwiddie County Dinwiddie County Dinwiddie County Carlottey Director City Disconty Dinwiddie County Carlotte County Dinwiddie Count	Brunswick County	1	6.2
Buena Vista City 1 15.4 Campbell County 9 16.4 Caroline County 5 16.3 Carroll County 6 20.1 Charles City County 0 0.0 Charlotte County 0 0.0 Charlottesville City 2 4.2 Chesapeake City 32 13.1 Chesterfield County 44 12.5 Clarke County 2 13.7 Colonial Heights City 4 23.0 Covington City 1 18.1 Craig County 0 0.0 Culpeper County 5 9.5 Cumberland County 3 30.2 Danville City 9 22.5 Dickenson County 5 34.9 Dinwiddie County 3 10.5 Emporia City 1 18.7 Essex County 3 27.4 Fairfax City 1 4.2 Fairfax County 5 0.0 Fauquier County 5 0.0 Fauquier County 5 1 5.6 Floyd County 5 1 6.4	Buchanan County	6	28.6
Campbell County Caroline County Carroll County Charles City County Charlotte County Charlottesville City Chesapeake City Clarke County Clarke County Colonial Heights City Covington City Culpeper County Culpeper County Danville City Dickenson County Dinwiddie County City Cay County County Culpeper Coun	Buckingham County	4	23.3
Caroline County Carroll County Charles City County Charlotte County Charlottesville City Chesapeake City Clarke County Clarke County Colonial Heights City Craig County Culpeper County Danville City Dickenson County Dinwiddie County Dinwiddie County Cairfax City Fairfax County Fauquier County Floyd County Coun	Buena Vista City	1	15.4
Carroll County Charles City County Charlotte County Charlottesville City Chesapeake City Chesterfield County Clarke County Colonial Heights City Covington City Culpeper County Dinwiddie County Dinwiddie County Dinwiddie County Fairfax County Falls Church City Falls Church City Falls Church Floyd County	Campbell County	9	16.4
Charles City County228.7Charlotte County00.0Charlottesville City24.2Chesapeake City3213.1Chesterfield County4412.5Clarke County213.7Colonial Heights City423.0Covington City118.1Craig County00.0Culpeper County59.5Cumberland County330.2Danville City922.5Dickenson County534.9Dinwiddie County310.5Emporia City118.7Essex County327.4Fairfax City14.2Fairfax County524.5Falls Church City00.0Fauquier County45.6Floyd County319.0	Caroline County	5	16.3
Charlotte County Charlottesville City Chesapeake City Chesapeake City Chesterfield County Clarke County Clarke County Colonial Heights City Covington City Craig County Culpeper County Culpeper County Cumberland County Danville City Dickenson County Dinwiddie County Semporia City Tessex County Te	Carroll County	6	20.1
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Fauquier County 4 5.6 Floyd County 3 19.0	Fairfax County	52	4.5
Floyd County 3 19.0	Falls Church City	0	0.0
	Fauquier County	4	5.6
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	Fluvanna County	5	18.3

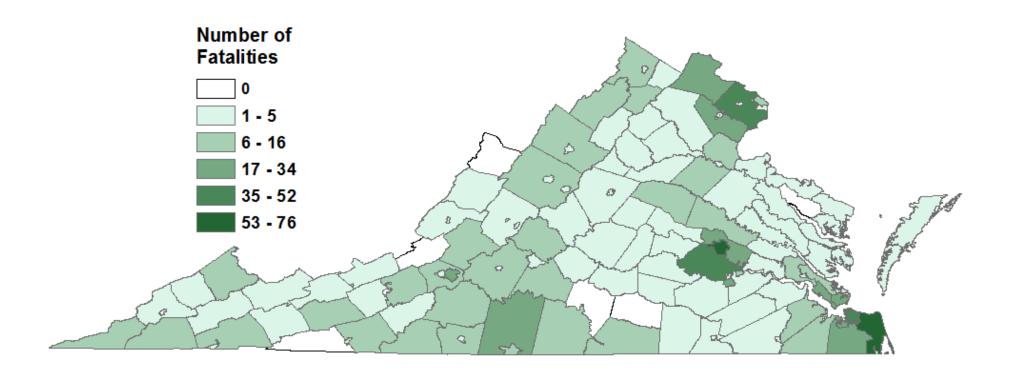
Locality of Injury	Deaths	Rate
Franklin City	1	12.6
Franklin County	7	12.5
Frederick County	12	13.4
Fredericksburg City	4	13.8
Galax City	2	31.5
Giles County	1	6.0
Gloucester County	4	10.7
Goochland County	3	12.6
Grayson County	0	0.0
Greene County	4	20.2
Greensville County	1	8.8
Halifax County	6	17.7
Hampton City	23	17.1
Hanover County	16	14.8
Harrisonburg City	2	3.8
Henrico County	26	7.9
Henry County	11	21.8
Highland County	0	0.0
Hopewell City	8	35.5
Isle of Wight County	6	16.2
James City County	6	7.8
King and Queen County	2	28.5
King George County	1	3.7
King William County	5	29.2
Lancaster County	3	28.3
Lee County	7	29.9
Lexington City	0	0.0
Loudoun County	21	5.1
Louisa County	11	29.3
Lunenburg County	0	0.0
Lynchburg City	4	4.9
Madison County	4	30.2
Manassas City	3	7.3
Manassas Park City	1	5.7
Martinsville City	5	39.8
Mathews County	1	11.3
Mecklenburg County	6	19.6
Middlesex County	3	28.4
Montgomery County	6	6.1
Nelson County	4	26.8
New Kent County	1	4.3
Newport News City	34	19.0
Norfolk City	52	21.4

Locality of Injury	Deaths	Rate
Northampton County	3	25.6
Northumberland County	4	33.1
Norton City	0	0.0
Nottoway County	2	13.1
Orange County	4	10.8
Page County	1	4.2
Patrick County	6	34.1
Petersburg City	20	63.8
Pittsylvania County	17	28.2
Poquoson City	2	16.3
Portsmouth City	25	26.5
Powhatan County	3	10.1
Prince Edward County	3	13.2
Prince George County	4	10.4
Prince William County	30	6.4
Pulaski County	4	11.8
Radford City	0	0.0
Rappahannock County	4	54.3
Richmond City	76	33.0
Richmond County	0	0.0
Roanoke City	19	19.2
Roanoke County	9	9.6
Rockbridge County	3	13.3
Rockingham County	11	13.4
Russell County	5	18.8
Salem City	3	11.9
Scott County	7	32.5
Shenandoah County	10	22.9
Smyth County	3	10.0
Southampton County	5	28.4
Spotsylvania County	10	7.3
Stafford County	10	6.5
Staunton City	3	12.0
Suffolk City	12	13.0
Surry County	1	15.6
Sussex County	2	17.9
Tazewell County	2	4.9
Virginia Beach City	68	15.1
Warren County	9	22.4
Washington County	8	14.9
Waynesboro City	2	8.8
Westmoreland County	3	16.7
Williamsburg City	1	6.7

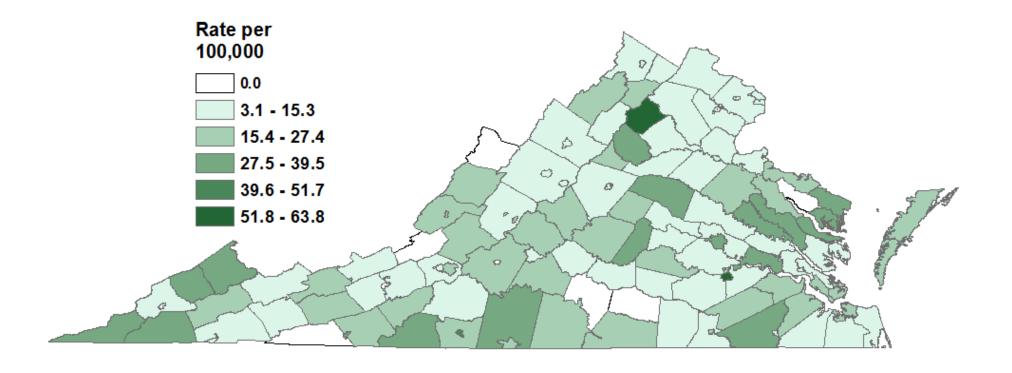
Locality of Injury	Deaths	Rate
Winchester City	1	3.6
Wise County	2	5.4
Wythe County	7	24.4
York County	7	10.3
Subtotal (in-state)	1028	12.0
Out of State	5	ND
Unknown	3	ND
Subtotal (out-of-state)	8	ND
TOTAL	1036	12.1

Note: No denominator is represented by ND

Map 6.3 Number of Gun-Related Deaths by Locality of Injury, 2019



Map 6.4 Number of Gun-Related Deaths by Locality of Injury, 2019

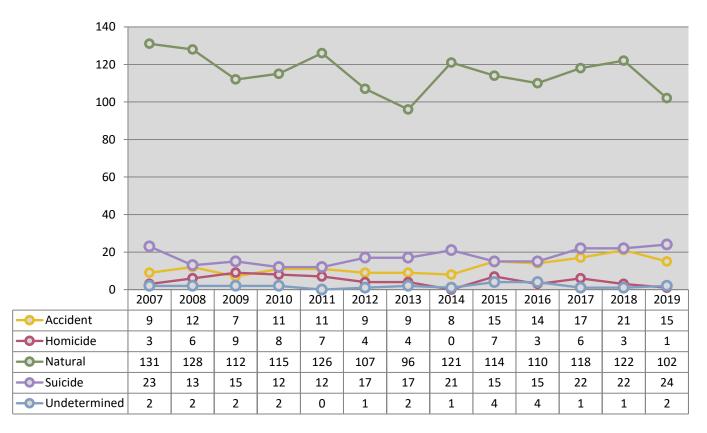


SECTION 7: IN-CUSTODY (PRISONER) DEATHS (N=144)

Pursuant to § 32.1-283 of the Code of Virginia, the OCME investigates deaths of all persons in jail, prison, or other correctional institution, or in police custody. The OCME took jurisdiction of 144 in-custody deaths in 2019.

- The majority (70.8%) of in-custody deaths were natural deaths
- The majority of deaths were male (93.1%) and white (52.1%)

Figure 7.1 Number of In-Custody Deaths by Manner and Year of Death, 2007-2019



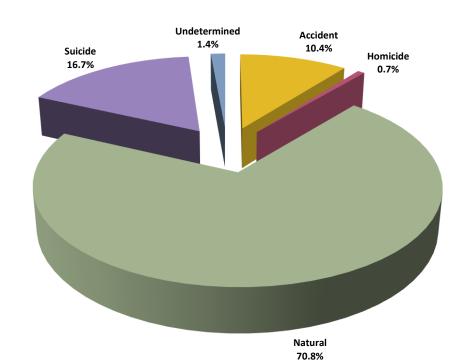
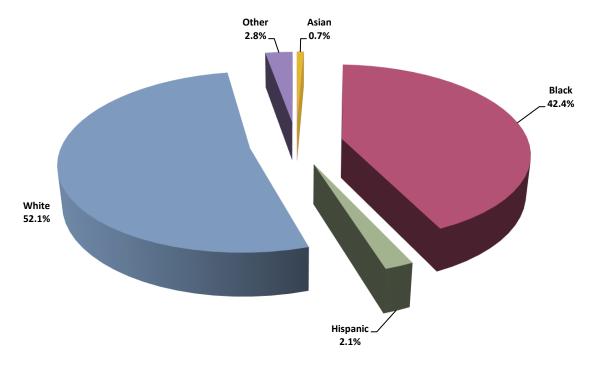


Figure 7.2 Percentage of In-Custody Deaths by Manner of Death, 2019

Figure 7.3 Percentage of In-Custody Deaths by Race/Ethnicity, 2019



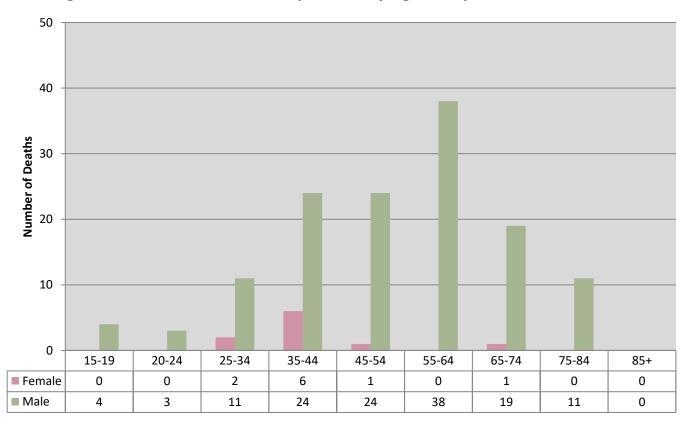


Figure 7.4 Number of In-Custody Deaths by Age Group and Gender, 2019

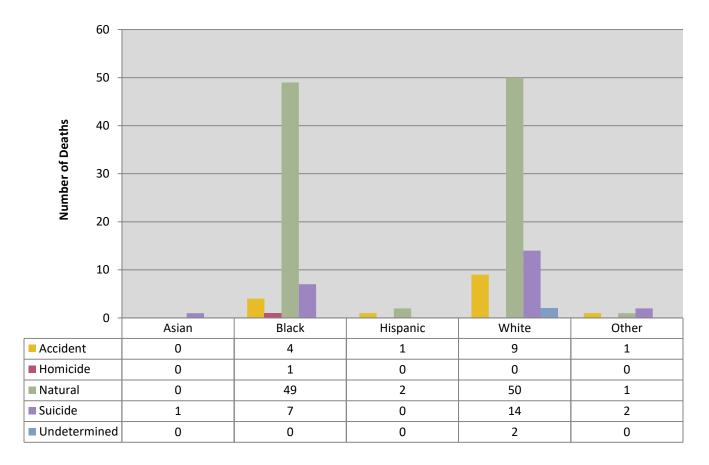


Figure 7.5 Number of In-Custody Deaths by Manner and Race/Ethnicity, 2019

Table 7.1 Number of In-Custody Deaths by Cause and Method of Death, 2019

NATURAL DEATHS	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Atherosclerosis	8	13
Atherosclerosis and hypertension	13	14
Cardiac arrhythmia not specified	1	1
Cardiomyopathy	2	3
Congenital defect	1	1
Hypertension	2	3
Valvular	1	1
Vascular dissection/rupture	1	1
Other cardiac disease/disorder	3	3
Central Nervous System Diseases/Disorders		
Seizure disorder	2	2
Vascular disease	1	5
Other CNS disease/disorder	0	1
Gastrointestinal Diseases/Disorders		
Cirrhosis	3	7
GI Malignancy	4	10
Hepatitis	0	4
Other GI disease/disorder	3	3
Genitourinal Diseases/Disorders	-	
Genitourinal malignancy	1	3
Renal disease	0	1
Other genitourinal disease/disorder	0	1
Pulmonary Disease/Disorders		
Asthma	1	1
COPD	1	2
Emboli	2	2
Pneumonia	0	2
Pulmonary malignancy	2	7
Other pulmonary disease/disorder	1	4
Systemic Diseases/Disorders		
AIDS/HIV	0	1
Blood disorders	0	1
Chronic drug abuse	1	1
Metastatic malignancy of unknown primary	1	2
Sepsis	1	1
Other systemic disease/disorder	0	2
Other Natural Death/Disorder		
Other natural disease/disorder	0	1
Natural Death Subtotal	56	104
UNNATURAL DEATHS		
Asphyxia		
	I	

Hanged	17	20
Drug Use		
Ingested and/or injected ethanol, illicit, prescription, and/or other type of drug	14	16
Traumatic Injury		
Fall/jump from height	1	1
Sharp force injury	3	3
Unnatural Death Subtotal	35	40
TOTAL OCME DEATHS	91	144

SECTION 8: STATE MENTAL HEALTH DEATHS (N=50)

Pursuant to § 32.1-283 of the Code of Virginia, the OCME investigates the death of any patient or resident of a state mental health facility. The OCME took jurisdiction of 50 state mental health resident deaths in 2019.

The majority of state mental health deaths were natural (90.0%), white (82.0%) and male (60.0%)

Figure 8.1 Percentage of State Mental Health Deaths by Manner, 2019

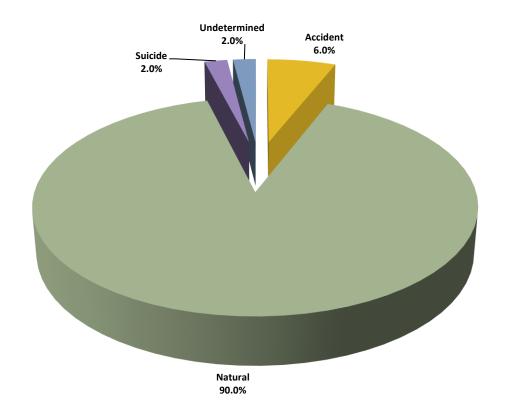


Figure 8.2 Percentage of State Mental Health Deaths by Race/Ethnicity, 2019

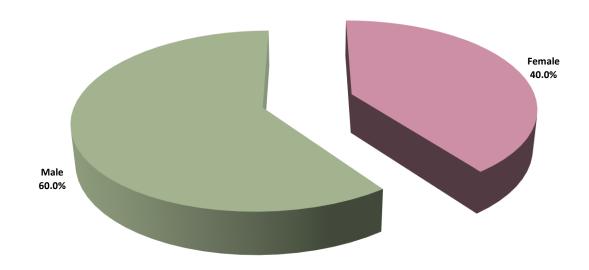


Figure 8.3 Number of State Mental Health Deaths by Age Group and Gender, 2019

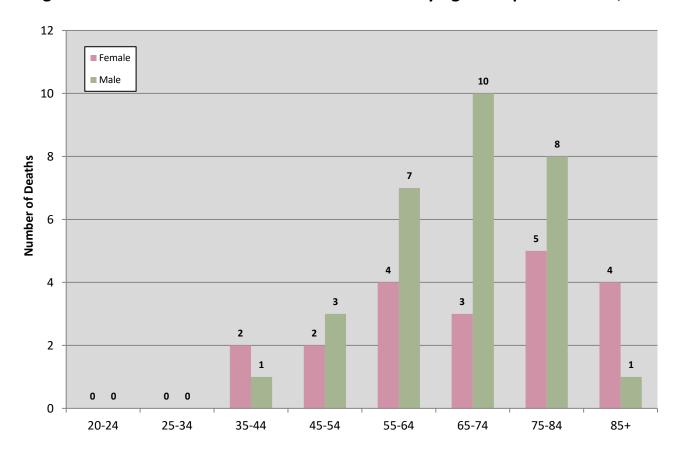


Figure 8.4 Percentage of State Mental Health Deaths Race/Ethnicity, 2019

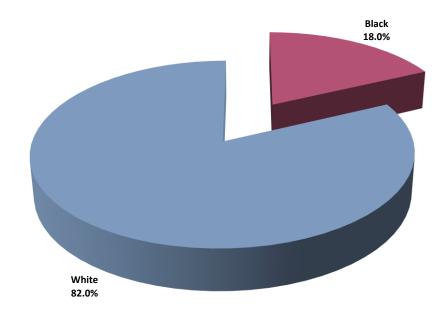


Table 8.1 Number of State Mental Health Deaths by Cause and Method of Death, 2019

Natural Deaths	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Acute coronary insufficiency	0	1
Atherosclerosis	3	3
Atherosclerosis and hypertension	6	6
Hypertension	3	3
Vascular dissection/rupture	1	1
Central Nervous System Diseases/Disorders		
Degenerative disease	1	2
Vascular disease	0	1
Other central nervous system disease/disorder	1	2
Gastrointestinal Diseases/Disorders		
Cirrhosis	0	1
GI malignancy	2	2
Genitourinal Diseases/Disorders		
Genitourinal malignancy	0	1
Other genitourinal disease/disorder	0	2
Pulmonary Disease/Disorders		
Emboli	5	5
Pneumonia	2	7
Pulmonary malignancy	1	1
Systemic Disease/Disorders		
AIDS/HIV	1	1
Blood disorders	0	1
Complications of dementia (including inanition)	2	3
Metastatic malignancy of unknown primary	0	1
Sepsis	1	1
Other systemic disease/disorder	1	1
Natural Death Subtotal	30	46
Unnatural Deaths	Autopsied	Total Cases
Asphyxia		
Choked on food or foreign object	1	2
Traumatic Injury		
Fall/Jump	0	1
Sharp force injury	1	1
Unnatural Death Subtotal	2	4
TOTAL OCME DEATHS	32	50

SECTION 9: RETROSPECTIVE CASES (N=128)

Retrospective cases are deaths that are unreported to the OCME at the time of death, but are discovered upon later review and are therefore investigated by the OCME retrospectively. At times, medical care providers or death reporters misunderstand what type of case falls under the jurisdiction of the OCME and do not refer a case to the OCME. The OCME typically learns about these cases from VDH's Division of Vital Records, funeral homes, or local medical examiners.

Some of these 128 retrospective deaths may have been deaths that occurred in prior years, but the OCME investigation began in 2019.

- The majority of the OCME's retrospective deaths were accidents (89.0%)
- Falls were the most common unreported type of death (58.6%), nearly all occurring among elder persons

Figure 9.1 Percentage of Retrospective Deaths by Manner of Death, 2019

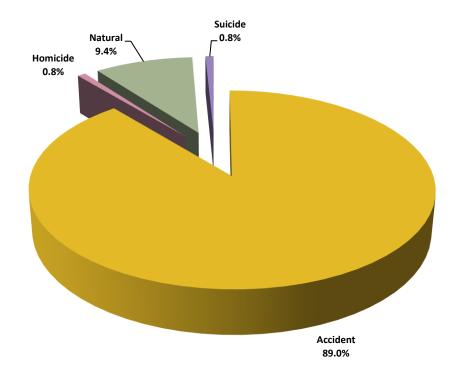
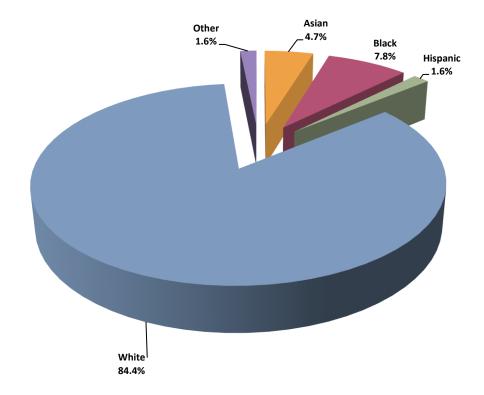


Table 9.1 Number and Percentage of Retrospective Deaths by OCME District, 2019

OCME District	Number	Percent
Central	24	18.8%
Northern	43	33.6%
Tidewater	13	10.2%
Western	48	37.5%
Total	128	100.0%

Figure 9.2 Percentage of Retrospective Deaths by Race/Ethnicity, 2019



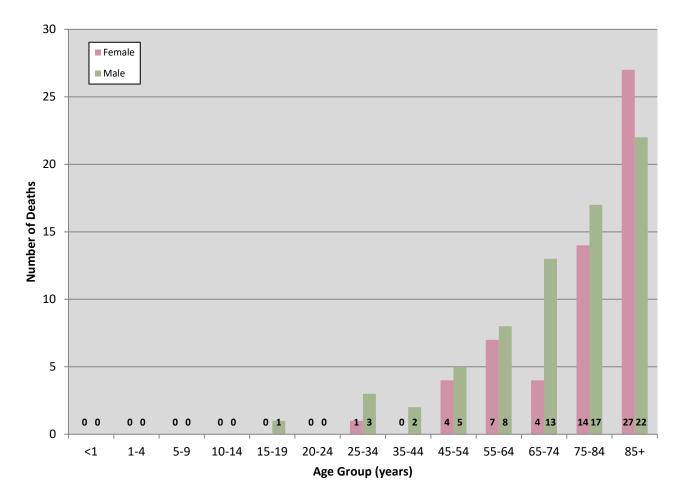


Figure 9.3 Number of Retrospective Deaths by Age Group and Gender, 2019

Table 9.2 Number of Retrospective Deaths by Cause and Method of Death, 2019

Natural De	aths	Total Cases
	ular Diseases/Disorders	Total Cases
Carulovasc	Atherosclerosis and hypertension	4
	Hypertension	5
Castrainte		5
Gastrointes	stinal Diseases/Disorders Cirrhosis	1
		1
	Gastrointestinal hemorrhage	1
0	Other gastrointestinal disease/disorder	1
Genitourin	al Diseases/Disorders	4
	Other genitourinal disease/disorder	1
Pulmonary	Diseases/Disorders	
	COPD	1
	Emboli	1
Other Natu	ral Death/Disorder	
	Blood disorder	1
	Chronic alcoholism	2
	Diabetes	2
Natural De	ath Subtotal	20
Unnatural I	Deaths	Total Cases
Asphyxia		
	Choked (aspiration food or foreign object)	5
	Hanged	1
	Mechanical/Positional asphyxia	1
Drug Use		
	Ingested and/or injected ethanol, illicit, prescription,	
	and/or other type of drug	7
Electrocution		
	Electrocution	1
Environme	ntal Exposure	
	Exposure to cold	1
Fall/Jump	•	
, ,	Fall from standing	75
Gunshot		
2	Gunshot wound	
	Unknown	2
Motor Veh		_
.viotor veni	Motor vehicle collision	10
Other Trau		10
Julier ITau	Falling object	4
	Other trauma	1
	Other trauma	1

Unnatural Death Subtotal	108
TOTAL OCME DEATHS	128

Note: the OCME cannot perform an autopsy on retrospective cases because the remains have already been processed and the final disposition has already been completed

GLOSSARY

Accident – The *manner of death* used when there is no evidence of intent; an unintentional, sudden, and unexpected death.

Assistant Chief Medical Examiner – A forensic pathologist who has the duty of performing autopsies and investigating deaths that fall under the *jurisdiction* of the *Office of the Chief Medical Examiner*, and determining *cause* and *manner of death*.

Autopsy – A detailed postmortem external and internal examination of a body to determine cause and manner of death, collect evidence, and determine the presence or absence of injury.

Cause of Death – The disease, injury, or poison that results in a physiological derangement or biochemical disturbance that is incompatible with life. The result of post-mortem examination, including autopsy and toxicological findings, combined with information about the medical history of the decedent, serves to establish the *cause of death*.

Chief Medical Examiner – The head of the *Office of the Chief Medical Examiner*. The Chief Medical Examiner must be a forensic pathologist licensed to practice medicine in Virginia and may appoint *Assistant Chief Medical Examiners* who are forensic pathologists, and *Local Medical Examiners*.

Children – Individuals 17 years of age and younger.

Drug Caused Death – A death caused by a drug or combination of drugs.

Ethanol – An alcohol, which is the principal intoxicant in beer, liquor, and wine. A person with an alcohol concentration in blood of 0.08 percent by weight by volume (0.08%) is legally intoxicated in Virginia.

Ethanol Present – Deaths in which toxicological tests reveal a reportable level of *ethanol* (0.01% BAC or greater) at the time of death.

Homicide – The *manner of death* in which death results from the intentional harm of one person by another.

Jurisdiction – Pursuant to the Code of Virginia § 32.1-283, the code details the extent of the Office of the Chief Medical Examiner's authority over deaths:

'Upon the death of any person from trauma, injury, violence, poisoning, accident, suicide or homicide, or suddenly when in apparent good health, or when unattended by a physician, or in jail, prison, other correctional institution or in police custody, or who is an individual receiving services in a state hospital or training center operated by the Department of Behavioral Health and Developmental Services, or suddenly as an apparent result of fire, or in any suspicious, unusual or unnatural manner, or the sudden death of any infant less than 18 months of age whose death is suspected to be attributable to Sudden

Infant Death Syndrome (SIDS), the medical examiner of the county or city in which death occurs shall be notified by the physician in attendance, hospital, law-enforcement officer, funeral director or any other person having knowledge of such death.'

Local Medical Examiner – A physician, nurse practitioner, or physician assistant appointed by the *Chief Medical Examiner* for a city or county to assist in the investigation of deaths and determine *jurisdiction* and disposition of cases reported; additionally, to perform external examinations when required. There is a local medical examiner in most counties in Virginia.

Locality of Death – The county/city where the death occurred. The county/city where the decedent legally resided, the county/city where the decedent was fatally injured, and the county/city where the decedent died may be the same or different.

Locality of Event – The county/city where a person sustained the injury result eventually resulting in death.

Locality of Residence – The county/city where a person legally resides. If not a resident of Virginia, the decedent is listed as "out of state"

Manner of Death – The general category of the circumstances of the event which causes the death. The categories are *accident, homicide, natural, suicide,* and *undetermined*.

Method of Death – The means, fatal agency or item causing death, present at the time of injury or death.

Motor Vehicle Collision Related Death – A death involving a motor vehicle. Motor vehicles include automobiles, vans, motorcycles, trucks, aircraft, and trains. The decedent is usually a driver of, a passenger in, or a pedestrian who is struck by a motor vehicle. The death of a bicyclist that is struck by a motor vehicle is considered to be a motor vehicle related death.

Natural – The *manner of death* used when a disease alone causes death. If death is hastened by an injury, the *manner of death* is not considered natural.

Office of the Chief Medical Examiner – The Office of the Chief Medical Examiner (OCME) lies within the Virginia Department of Health and is responsible for the investigation of sudden, violent, or unexpected death.

Opiate – A class of drugs derived from the opium poppy plant (*Papaver somniferum*). "Opioid" is often used interchangeably with opiates, and describes chemical/pharmaceutical narcotics that bind to the opiate receptors of the brain and work very similarly to opiates.

Stimulant – A class of drugs, including cocaine and oral amphetamines, whose principal action is the stimulation of the central nervous system.

Sudden and Unexpected Infant Death – A diagnosis designated for infants (children under the age of 1 year). Sudden and Unexpected Infant Death (SUID) is a diagnosis made in cases in which autopsy does not reveal a definitive medical or traumatic cause of death and the circumstances surrounding the death suggest that there is an associated risk factor for dying, such as unsafe bedding or co-sleep, or some other external factor, but the contribution of this factor cannot be determined with certainty. The diagnosis may also be used in the situation where a medical disease is identified, but it is uncertain that this disease caused death.

Sudden Infant Death Syndrome –Sudden Infant Death Syndrome (SIDS) is defined as the sudden death of an infant that cannot be explained after a thorough investigation is conducted, including a complete autopsy, examination of the death scene which includes no external risk factors, and review of the clinical history.

Suicide – The manner of death in which death results from the purposeful attempt to end one's life.

Undetermined – The *manner of death* for deaths in which there is insufficient information to assign another manner. An undetermined death may have an undetermined cause of death and an unknown manner, an undetermined cause of death and a known manner, or a determined cause of death and an unknown manner.

View- A detailed postmortem external examination of the decedent's body, clothing, and injuries that may have caused or contributed to their death

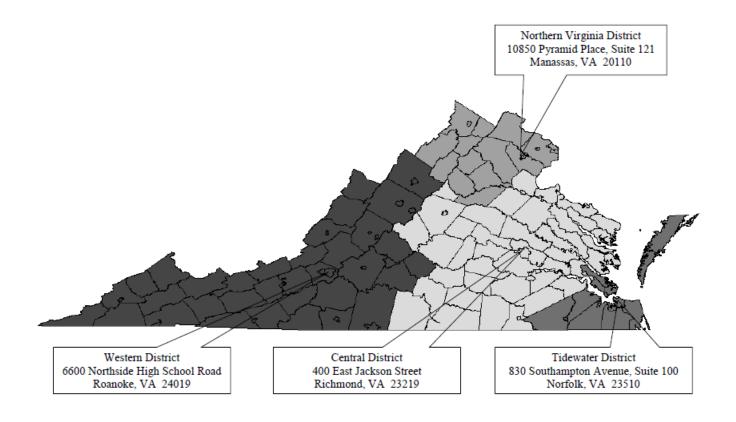
MEDICAL EXAMINER DISTRICTS

CENTRAL *Counties* of Albemarle, Amelia, Brunswick, Buckingham, Caroline, Charles City, Charlotte, Chesterfield, Cumberland, Dinwiddie, Essex, Fluvanna, Gloucester, Goochland, Greene, Greensville, Halifax, Hanover, Henrico, James City, King and Queen, King George, King William, Lancaster, Louisa, Lunenburg, Mathews, Mecklenburg, Middlesex, Nelson, New Kent, Northumberland, Nottoway, Powhatan, Prince Edward, Prince George, Spotsylvania, Stafford, Surry, Sussex, Richmond, and Westmoreland. *Cities* of Charlottesville, Colonial Heights, Emporia, Fredericksburg, Hopewell, Petersburg, Richmond, and Williamsburg.

NORTHERN *Counties* of Arlington, Clarke, Culpeper, Fairfax, Fauquier, Frederick, Loudoun, Madison, Orange, Page, Prince William, Rappahannock, Shenandoah, and Warren. *Cities* of Alexandria, Fairfax, Falls Church, Manassas, Manassas Park, and Winchester.

TIDEWATER *Counties* of Accomack, Isle of Wight, Northampton, Southampton, and York. *Cities* of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, and Virginia Beach.

WESTERN Counties of Alleghany, Amherst, Appomattox, Augusta, Bath, Bedford, Bland, Botetourt, Buchanan, Campbell, Carroll, Craig, Dickenson, Floyd, Franklin, Giles, Grayson, Henry, Highland, Lee, Montgomery, Patrick, Pittsylvania, Pulaski, Roanoke, Rockbridge, Rockingham, Russell, Scott, Smyth, Tazewell, Washington, Wise, and Wythe. Cities of Bristol, Buena Vista, Covington, Danville, Galax, Harrisonburg, Lexington, Lynchburg, Martinsville, Norton, Radford, Roanoke, Salem, Staunton, and Waynesboro.



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Commonwealth of Virginia
Virginia Department of Heath
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